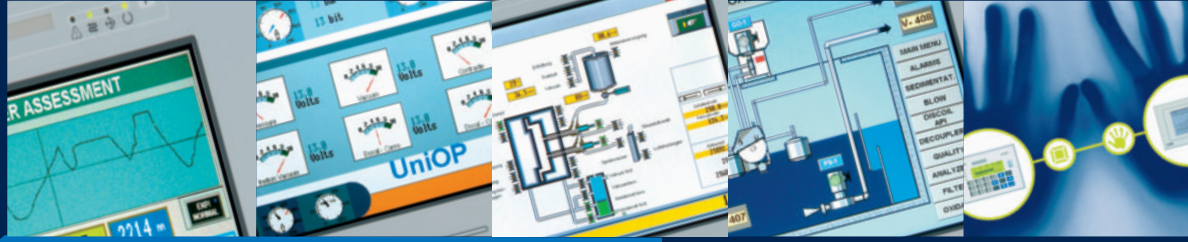


UniOP

Touch & Controls

Sold by AA Electric 1-800-237-8274 Lakeland, FL • Lawrenceville, GA • Greensboro, NC • East Rutherford, NJ www.AAelectric.com



EXOR

Sold by AA Electric 1-800-237-8274 Lakeland, FL • Lawrenceville, GA • Greensboro, NC • East Rutherford, NJ www.AAelectric.com

No limits UniOP touch & controls

EXOR has a long-standing history of delivering the highest-quality products for industrial automation and embedded system applications. Prestigious automation companies confirm this reputation by relying on EXOR's tried & true know-how and offering UniOP products under various brand-label agreements. EXOR provides total HMI solutions, from board-level embedded systems to simple text displays, monochrome graphics units, full color touchscreen workstations, to powerful industrial computers. Our products are

currently sold, serviced, and supported in more than 40 countries around the world, with many large companies and OEM using EXOR units to expand their product offering. EXOR's goal is to provide easy to use products that meet today's challenging requirements with a strong focus on leveraging the advantages of ever-changing technologies. Using continuing customer oriented product development, EXOR has taken specific applications in PLC, Motion and Industrial PC, and turned them into proven solutions.



Compact - Capable - Cost Effective The EXOR Product Range

This is unique...

Even the smallest systems have the capability of sending SMS messages or receiving data via the GSM modem and transferring it as a gateway to the controls. There is the option of integrating a high-performance PLC module even in the lowest cost systems. The CoDeSys control development tool from 3S can be used to create your IEC 61131 applications. This provides an inexpensive and compact alternative to conventional PLC systems.

Video Input Module

Display up to four live video images from three composite video signals plus one VGA port with the new VMO10 video input module. UniOP panels can easily become the front-end for video cameras and computers and are ideal for displaying live images on the factory floor or in building automation/marine applications. Video windows can be freely positioned on the screen for multi-channel presentations or full-screen display of a single channel.



eTOP02 / eTOP03



eTOP05



eTOP10B / eTOP11



eTOP20B - eTOP21B



eTOP33B



eTOP39B



eTOP40B



eTOP50B

Integrated PLC

Customer-specific development



ePAD03/ePAD04



ePAD05/ePAD06



CP10G-04/CP11G-04



ePALM10



ePAD33B

Low cost
high-performance
touch-displays

One software for all systems

Worldwide sales & service

200 drivers / fieldbuses

Many Devices - One Software Tool

EXOR Designer 6

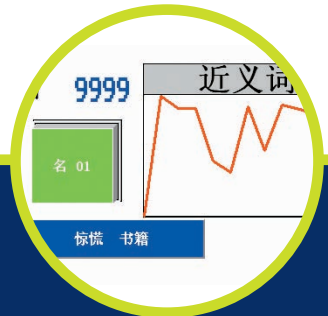
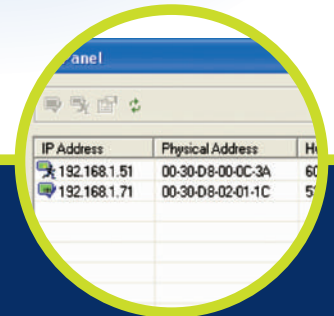
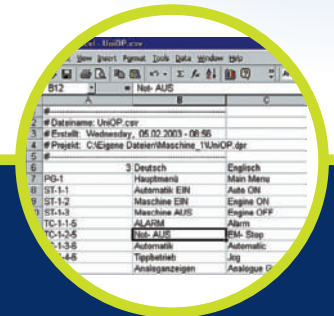
The software concept

Designer 6 provides users with an easy to use yet powerful software interface for building applications for the entire UniOP product family. Some of the new features include the integration of TrueType fonts, support for Asian characters and Ethernet upload/download. In addition, access to recipe data, alarms, event list and trend buffers has been extended. With enhanced language management, 64K colors on TFT displays, auto execution of macro commands on power-up and optional video input module, Designer meets the need of the most

demanding HMI applications in industrial and building automation. Detailed project documentation is provided by the extended printout functions, with cross-referencing. With a single programming tool for all UniOP panels, including text displays, graphic screens, handheld or touch panels, and the availability of more than 200 drivers, Designer gives you the tools necessary for all your HMI needs. The easy to use and intuitive interface will help you create screens that provide your operators with the information that they need, in real time, to manage the process.

Ethernet communication protocols

Most Ethernet-based communication protocols currently in use in the industry are available for use with one of the optional modules. Among them:
 Simatic S7
 Modbus/TCP (Client&Server)
 Ethernet/IP CIP
 SAIA S-BUS
 GE SRTIP
 Hitachi H
 Festo EasyIP
 Mitsubishi Q
 Omron FINS
 Bosch Rexroth SIS
 Jetter PCOM7



Language management - import/export of applications

All alarm messages, legends and dynamic text information can be conveniently exported for ease of translation to an Excel spreadsheet. This makes it possible to re-import your text in different languages into your project file. The creation of Chinese text is also done with ease: with a few commands your lettering appears in Chinese characters.

Full Ethernet Connectivity

Connect your panel to a network and you are ready for upload/download of project files, access to recipe data, alarms and trend buffers. Several options are available for the panel's IP assignment including DHCP. You can now build your automation system completely based on Ethernet communication. Just plug one cable to program the HMI with Designer, network multiple panels, connect the HMI to the PLC and perform data acquisition from higher-level systems with the UniNet OPC Server.

Far East Languages

Far East languages such as Chinese and Japanese are now supported by Designer. Multilanguage applications including both Western and Far East scripts can be easily created with Designer and transferred to the panel for a great graphical presentation using TrueType fonts.

The text export/import facility has been extended also to Far East scripts using Unicode. Develop your applications in your own language, then export all the text information to a .csv text file and have it translated by professionals. Import the translated information to your Designer application for a complete integration.

More colors for realistic graphics

If you need sharper and more attractive screens you will enjoy the new color depth of 16 bits for images up to 64K colors, supported in all B-generation products with TFT display. Photorealistic images for higher quality displays are now possible.

The integrated graphic editor makes it possible for users who have no special software knowledge to process either imported graphics or their own custom graphics. Therefore the pixel-oriented creation and positioning of graphics is made easy. Designer 6 supports the import of all popular standard graphic formats such as JPG, BMP, TIF, DXF.

Object-oriented workflow

Grouped objects can be copied into an object dictionary as a group using drag and drop. They can then be given a name and simply used again in other projects. This makes it easy for you to create and administer your own symbol or function groups.

All elements in the designer software are objects and this makes it easy for them to be processed, copied, cut and pasted, in the same way you would with other Windows-based programs. In this way objects can also be easily combined with each other. The software makes it possible for objects to be grouped or given a specific sequence.

Everything at a Glance

EXOR Operator Panels



	ePALM10	ePAD03/ePAD04	ePAD05/ePAD06	CP10G-04/CP11G-04	MKDG-06	BKDR-46/BKDC-46	ePAD33B/ePAD33BT	eTOP02	eTOP03	eTOP05	eTOP10B	eTOP11	eTOP20B	eTOP21B	eTOP32B	eTOP33B	eTOP39B	eTOP40B	eTOP50B	
Communication:	200 drivers, 11 fieldbuses																			
	Dual driver																			
Display:	Type																			
	Colors																			
	Diagonal (inch)																			
	Lines x characters																			
	Resolution																			
	Definable characters																			
	Dimming																			
Operator Interface:	Touchscreen																			
	Function Keys																			
	System keys																			
	Numerical keys																			
	LED indicators																			
Memory:	User Memory (Flash)																			
	Flash card option																			
	Recipe memory																			
Interface:	PLC Port																			
	Programming/Printer Port																			
	UniNet (server and client)																			
	Aux port (optional fieldbus/Ethernet)																			
	Ethernet programming																			
	Serial PLC Communication																			
Functions:	Graphic																			
	Video Input Option																			
	Trend acquisition and display																			
	Battery																			
	Real Time Clock																			
	Password																			
	Alarms																			
	Event list																			
Power Supply:	Voltage																			
	Current rating (at 24 VDC)																			
Environment:	Degree of protection (front panel)																			
	Temperature range (vertical installation)																			
Dimensions:	Front L x H mm / inches																			
	Cutout L x H mm / inches																			
	Weight																			
Approvals:	CE, cULus																			
Programming:	Designer 6																			

Equipment	Memory		Communication modules										Video Input	HMIcontrol					UniLOAD-USB	PROTXX	printable slide-in key legend sheets		
Type Description																							

* only for ePAD03, ePAD05, eTOP02, eTOP03
 ** pending

Modular and Flexible EXOR Embedded Technology

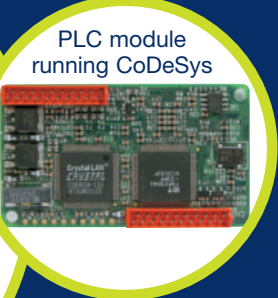
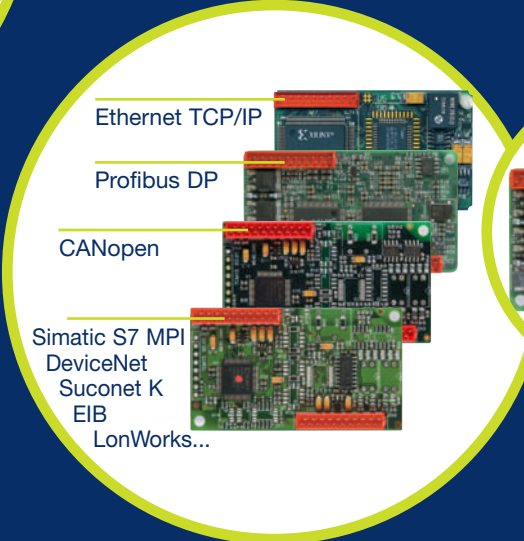
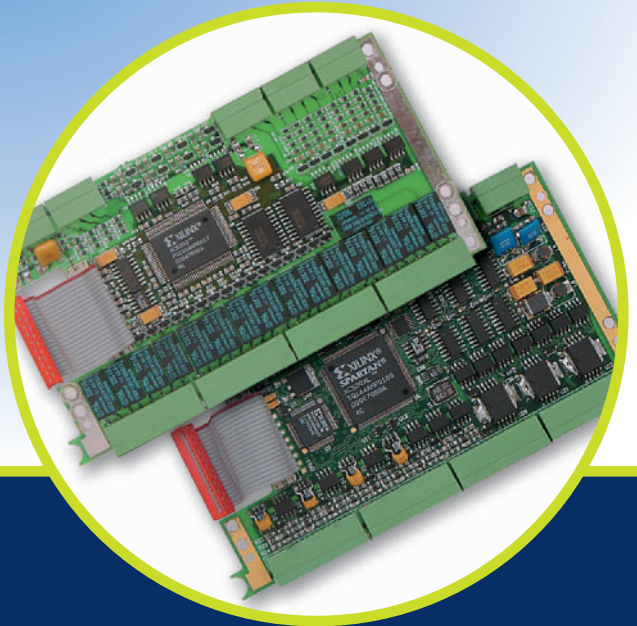
Flexible communication and customer-specific embedded technology have contributed to EXOR's high integration capability.

For many years now, all EXOR data entry systems have had a high level of integration capability because of the extensive offering of communication interfaces. EXOR's compatibility with the worldwide web, mobile phones, PLCs and the related

communication standards such as XML or SOAP offer a highly flexible solution. Interchangeable communication modules provide a set of industry standard solutions, while keeping the communication open for possible changes in the future. EXOR systems provide expansion ports for optional modules with the connections to highly intelligent system boards that can provide customer specific

solutions. This is true whether it's a web server, embedded PLC, motion control or simply an Ethernet module for connection to the planned or existing company network. With our multi-protocol UniNet OPC server, data can be simply integrated into the control and IT system via Ethernet.

Communication modules
Communication modules for all fieldbus and LAN applications can be integrated in all EXOR systems including handheld systems and Windows CE units.



Ethernet TCP/IP

Profibus DP

CANopen

Simatic S7 MPI
DeviceNet
Suconet K
EIB
LonWorks...

PLC module
running CoDeSys



Sold by AA Electric 1-800-237-8274 Lakeland, FL • Lawrenceville, GA • Greensboro, NC • East Rutherford, NJ www.AAelectric.com

Sold by AA Electric 1-800-237-8274 Lakeland, FL • Lawrenceville, GA • Greensboro, NC • East Rutherford, NJ www.AAelectric.com

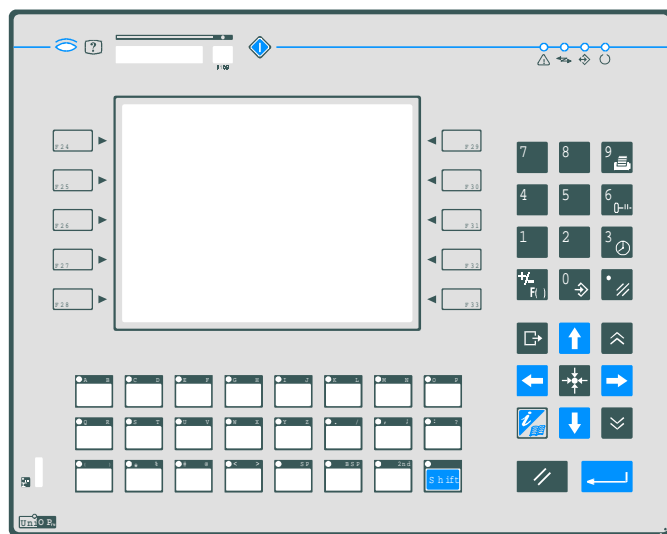
EXOR

UniOP BKDR-46, BKDC-46

HMI with ¼ VGA display (available in the monochrome and STN color versions), and ASCII keyboard.

Highlights

- ¼ VGA (320x240 pixels) display
- Graphic display
- 16 row, 40 characters of text
- 33 Function keys
- 24 user LEDs
- ASCII keyboard
- Multilanguage project capability
- Connection to bus systems



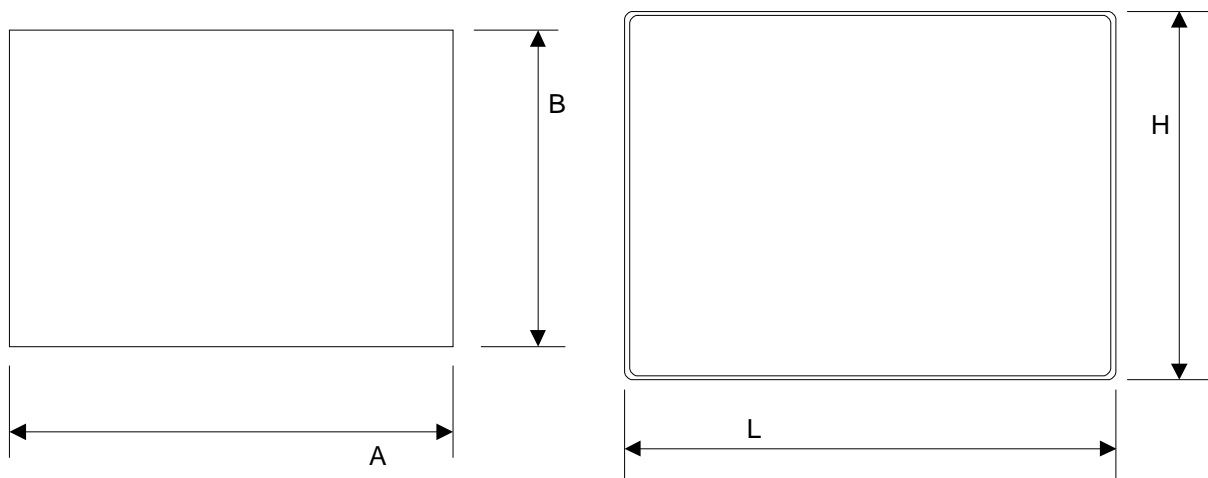
Technical data

	BKDR-46	BKDC-46
Display	Monochrome LCD	STN Color LCD
Backlight	CCFL	
Graphics	320x240 pixels	
Display dimensions	121x91 mm / 5.6"	
Rows/columns	16x40	
Character height	-	
Scalable fonts	Yes	
User definable characters	256	
Contrast regulation	Software	
User memory	8MB (SSFDC card)	
User memory expansion	-	
Function keys	33	
System keys	24	
Touch screen	No	
User LEDs	24	
System LEDs	5	
PC/Printer port	Yes	

	BKDR-46	BKDC-46
PLC port	RS-232, RS-485, RS-422 CL 20 mA	
Aux port (fieldbus connection)	Yes, with optional modules	
External keyboard port	No	
Programming speed	9600 ÷ 38400 bps	
Page size	32 rows	
Number of variables per page	Unlimited	
Recipe memory	32 KB	
UniNet network	Client/Server	
Alarms	1024	
Event list	1024	
Alarm info page	Yes	
Password	Yes	
Battery	Yes	
Hardware RTC	Yes	
Screen saver	Yes	
Buzzer	No	
Fuse	2 A (user replaceable)	
Power supply voltage	18 ÷ 30 VDC	
Max power consumption on 24VDC	~ 600 mA	
Max panel thickness	5 mm	
Weight	~ 1.9 Kg	
Operating temperature	0 ÷ 50 °C	
Storage temperature	-20 ÷ +70 °C	
Operating and storage humidity	5 ÷ 95 % RH non-condensing	
Protection class	IP65 (front panel)	

Front dimensions and cutout

Front dimensions LxH	275x220mm	10.83x8.66 "
Cutout AxB	262x207mm	10.31x8.15 "

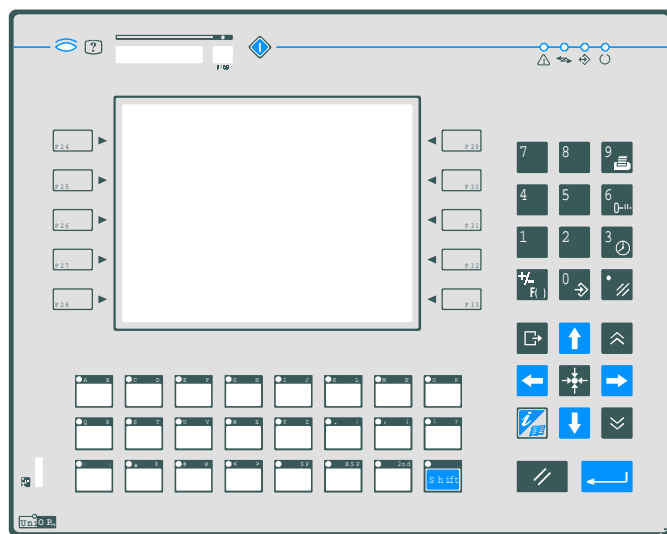


UniOP BKDR-46, BKDC-46

HMI with ¼ VGA display (available in the monochrome and STN color versions), and ASCII keyboard.

Highlights

- ¼ VGA (320x240 pixels) display
- Graphic display
- 16 row, 40 characters of text
- 33 Function keys
- 24 user LEDs
- ASCII keyboard
- Multilanguage project capability
- Connection to bus systems



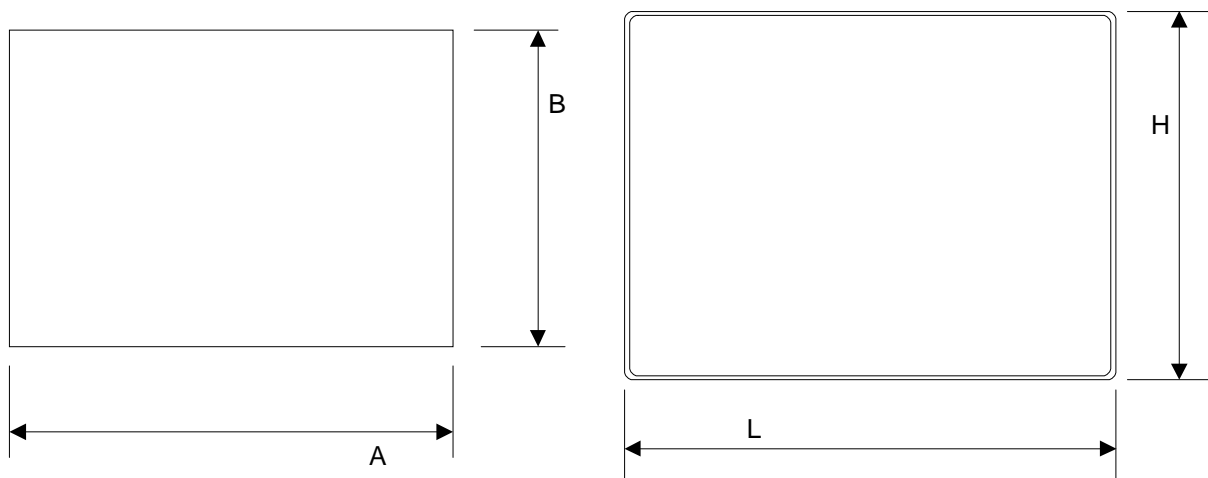
Technical data

	BKDR-46	BKDC-46
Display	Monochrome LCD	STN Color LCD
Backlight	CCFL	
Graphics	320x240 pixels	
Display dimensions	121x91 mm / 5.6"	
Rows/columns	16x40	
Character height	-	
Scalable fonts	Yes	
User definable characters	256	
Contrast regulation	Software	
User memory	8MB (SSFDC card)	
User memory expansion	-	
Function keys	33	
System keys	24	
Touch screen	No	
User LEDs	24	
System LEDs	5	
PC/Printer port	Yes	

	BKDR-46	BKDC-46
PLC port	RS-232, RS-485, RS-422 CL 20 mA	
Aux port (fieldbus connection)	Yes, with optional modules	
External keyboard port	No	
Programming speed	9600 ÷ 38400 bps	
Page size	32 rows	
Number of variables per page	Unlimited	
Recipe memory	32 KB	
UniNet network	Client/Server	
Alarms	1024	
Event list	1024	
Alarm info page	Yes	
Password	Yes	
Battery	Yes	
Hardware RTC	Yes	
Screen saver	Yes	
Buzzer	No	
Fuse	2 A (user replaceable)	
Power supply voltage	18 ÷ 30 VDC	
Max power consumption on 24VDC	~ 600 mA	
Max panel thickness	5 mm	
Weight	~ 1.9 Kg	
Operating temperature	0 ÷ 50 °C	
Storage temperature	-20 ÷ +70 °C	
Operating and storage humidity	5 ÷ 95 % RH non-condensing	
Protection class	IP65 (front panel)	

Front dimensions and cutout

Front dimensions LxH	275x220mm	10.83x8.66 "
Cutout AxB	262x207mm	10.31x8.15 "

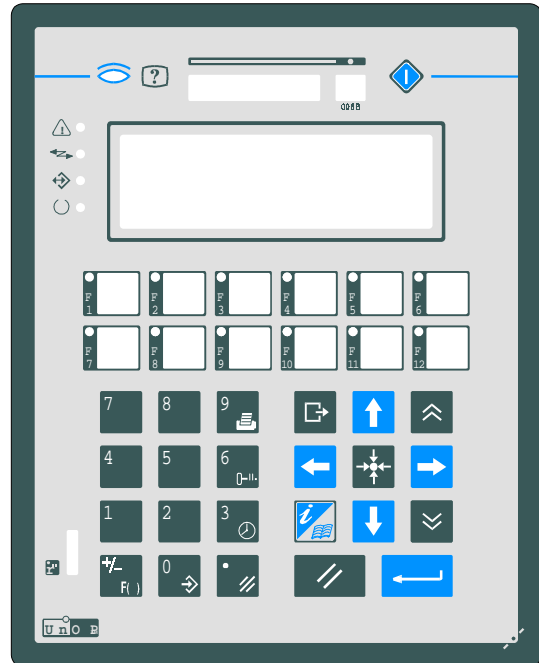


UniOP CP10G-04, CP11G-04

Compact low-cost HMI with monochrome graphic display.

Highlights

- Monochrome graphic display
- 4 rows, 20 columns of text
- Downloadable fonts
- Scalable text
- 12 function keys with slide-in legends
- 13 user LEDs
- Multilanguage project capability
- Connection to bus systems
- New plastic bezel with flat design



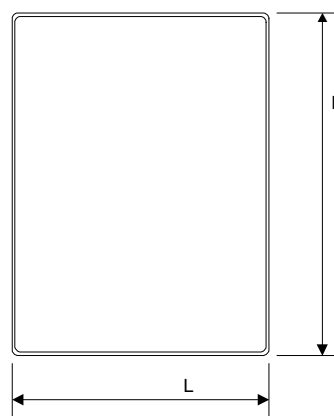
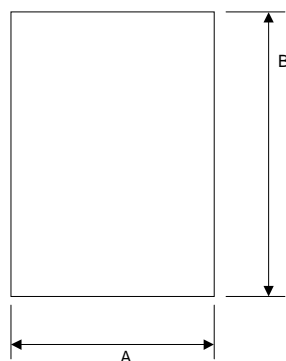
Technical data

	CP10G-04	CP11G-04
Display	Monochrome LCD	
Backlight	LED	
Graphics	120x32 pixels	
Display dimensions	70x21 mm	
Rows/columns	4x20	
Character height	-	
Scalable fonts	Yes	
User definable characters	256	
Contrast regulation	Software	
User memory	512 KB (64 KB reserved to the protocol)	
User memory expansion	512 KB	
Function keys	12	
System keys	23	
Touch screen	No	
User LEDs	13	
System LEDs	4	
PC/Printer port	Yes	No

	CP10G-04	CP11G-04
PLC port	RS-232, RS-422, RS-485, CL 20 mA	
Aux port (fieldbus connection)	Yes, requires optional module	
External keyboard port	No	
Programming speed	9600 ÷ 38400 bps	9600 bps
Page size	32 rows	
Number of variables per page	Unlimited	
Recipe memory	16 KB	No
UniNet network	Client/Server	Client
Alarms	1024	256
Event list	256	No
Alarm info page	Yes	
Password	Yes	
Battery	Yes	No
Hardware RTC	Yes	No
Screen saver	No	
Buzzer	No	
Fuse	2 A (user replaceable)	
Power supply voltage	18 ÷ 30 VDC	
Max power consumption at 24VDC	~ 300 mA	
Max panel thickness	5 mm	
Weight	~ 1.1 Kg	
Operating temperature	0 ÷ +50 °C	
Storage temperature	-20 ÷ +70 °C	
Operating and storage humidity	5 ÷ 85 % RH non-condensing	
Protection class	IP65 (front panel)	

Front dimensions and cutout

Front dimensions LxH	141x176 mm	5.55x6.93 "
Cutout AxB	128x163 mm	5.04x6.42 "
Cutout depth – version –0045	76 mm	2.99 "
Cutout depth – version –0050 (Snap-top)	79.7 mm	3.14 "

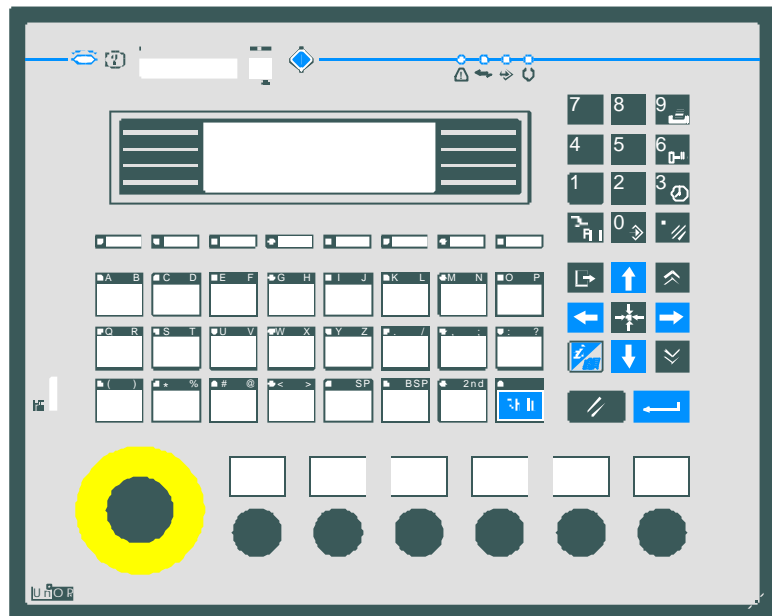


UniOP CP12G-04, CP13G-04

HMI panel with monochrome graphic display, ASCII keyboard and ready to house up to 7 electromechanical devices provided by the user.

Highlights

- Monochrome graphic display
- 4 rows, 20 columns of text
- ASCII keyboard
- Downloadable fonts
- Scalable text
- Ready to house electromechanical devices provided by the user
- Multilanguage project capability
- Connection to bus systems
- New plastic bezel with flat design



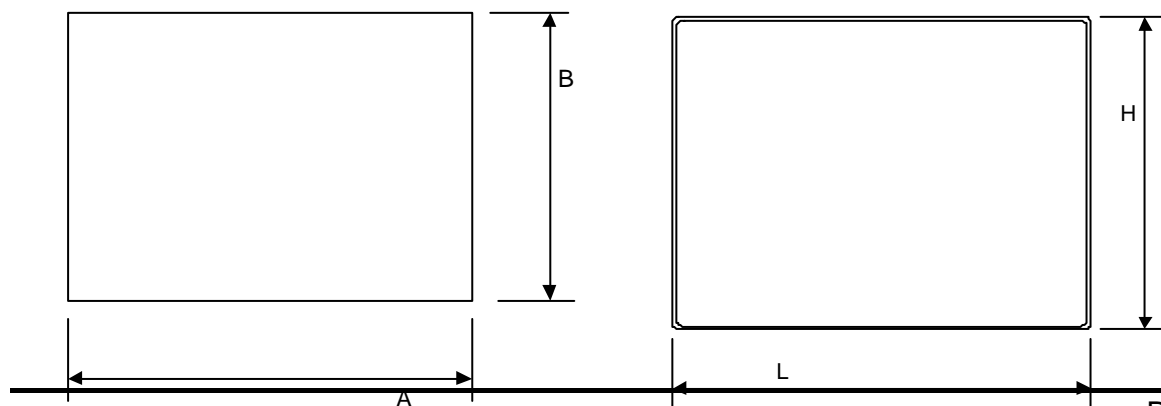
Technical data

	CP12G-04	CP13G-04
Display	Monochrome LCD	
Backlight	LED	
Graphics	120x32 pixels	
Display dimensions	70x21 mm	
Rows/columns	4x20	
Character height	-	
Scalable fonts	Yes	
User definable characters	256	
Contrast regulation	Software	
User memory	512 KB (64 KB reserved to protocol)	
User memory expansion	512 KB	
Function keys	23	
System keys	24	
Touch screen	No	

	CP12G-04	CP13G-04
User LEDs	32	
System LEDs	5	
PC/Printer port	Yes	No
PLC port	RS-232, RS-422, RS-485, CL 20 mA	
Aux port (fieldbus connection)	Yes, with optional modules	
External keyboard port	No	
Programming speed	9600 ÷ 38400 bps	9600 bps
Page size	32 rows	
Number of variables per page	Unlimited	
Recipe memory	16 KB	No
UniNet network	Client/Server	Client
Alarms	1024	256
Event list	256	No
Alarm info page	Yes	
Password	Yes	
Battery	Yes	No
Hardware RTC	Yes	No
Screen saver	No	
Buzzer	No	
Fuse	2 A (user replaceable)	
Power supply voltage	18 ÷ 30 VDC	
Max power consumption at 24VDC	~ 250 mA	
Max panel thickness	5 mm	
Weight	~ 2Kg	
Operating temperature	0 ÷ +50 °C	
Storage temperature	-20 ÷ +70 °C	
Operating and storage humidity	5 ÷ 95 % UR non-condensing	
Protection class	IP65 (front panel)	

Front dimensions and cutout

Front dimensions LxH	275x220 mm	10.83x8.66 "
Cutout AxB	262x207 mm	10.31x8.15 "
Mechanical keys predisposition	1 x □ 22mm, 6 x □ 16mm	1 x □ 0.86", 6 x □ 0.63"

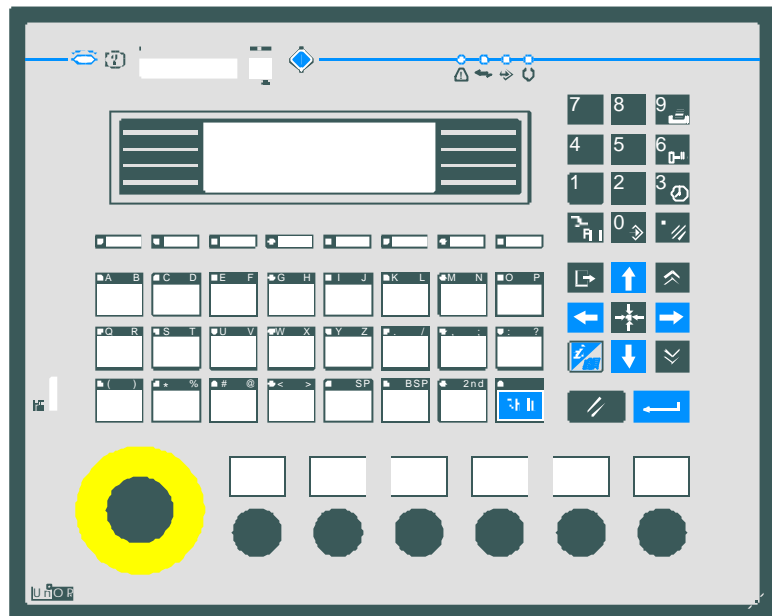


UniOP CP12G-04, CP13G-04

HMI panel with monochrome graphic display, ASCII keyboard and ready to house up to 7 electromechanical devices provided by the user.

Highlights

- Monochrome graphic display
- 4 rows, 20 columns of text
- ASCII keyboard
- Downloadable fonts
- Scalable text
- Ready to house electromechanical devices provided by the user
- Multilanguage project capability
- Connection to bus systems
- New plastic bezel with flat design



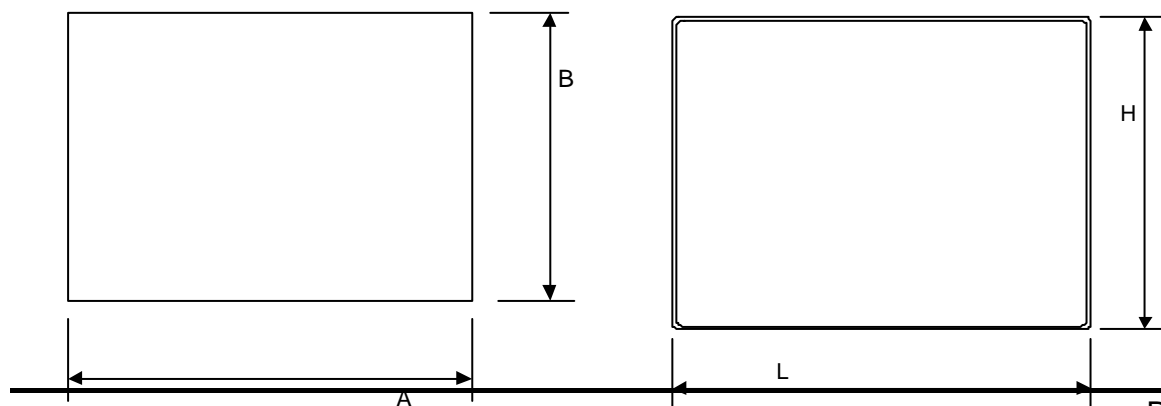
Technical data

	CP12G-04	CP13G-04
Display	Monochrome LCD	
Backlight	LED	
Graphics	120x32 pixels	
Display dimensions	70x21 mm	
Rows/columns	4x20	
Character height	-	
Scalable fonts	Yes	
User definable characters	256	
Contrast regulation	Software	
User memory	512 KB (64 KB reserved to protocol)	
User memory expansion	512 KB	
Function keys	23	
System keys	24	
Touch screen	No	

	CP12G-04	CP13G-04
User LEDs	32	
System LEDs	5	
PC/Printer port	Yes	No
PLC port	RS-232, RS-422, RS-485, CL 20 mA	
Aux port (fieldbus connection)	Yes, with optional modules	
External keyboard port	No	
Programming speed	9600 ÷ 38400 bps	9600 bps
Page size	32 rows	
Number of variables per page	Unlimited	
Recipe memory	16 KB	No
UniNet network	Client/Server	Client
Alarms	1024	256
Event list	256	No
Alarm info page	Yes	
Password	Yes	
Battery	Yes	No
Hardware RTC	Yes	No
Screen saver	No	
Buzzer	No	
Fuse	2 A (user replaceable)	
Power supply voltage	18 ÷ 30 VDC	
Max power consumption at 24VDC	~ 250 mA	
Max panel thickness	5 mm	
Weight	~ 2Kg	
Operating temperature	0 ÷ +50 °C	
Storage temperature	-20 ÷ +70 °C	
Operating and storage humidity	5 ÷ 95 % UR non-condensing	
Protection class	IP65 (front panel)	

Front dimensions and cutout

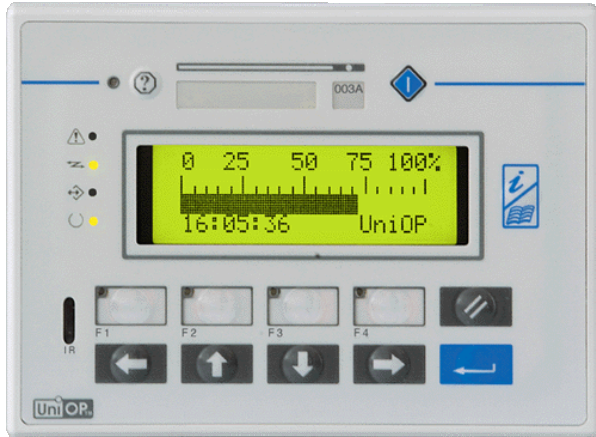
Front dimensions LxH	275x220 mm	10.83x8.66 "
Cutout AxB	262x207 mm	10.31x8.15 "
Mechanical keys predisposition	1 x □ 22mm, 6 x □ 16mm	1 x □ 0.86", 6 x □ 0.63"



UniOP ePAD03 and ePAD04

Compact low-cost HMI with graphic display. The ePAD03 and ePAD04 panels are defining a new standard for entry-level HMI products. They are the ideal replacement for the successful MD00 Series.

These products are also available with extended operating temperature range for use in extreme environmental conditions.



- Monochrome graphic display 120x32 pixels
- Downloadable fonts
- Scalable text
- 4 user programmable function keys with slide-in legends
- 5 user programmable LED indicators
- Dual-driver communication
- Connection to industrial bus systems and Ethernet with optional modules
- IP65 front panel protection
- Version with extended operating temperature available

Highlights

The ePAD03 and ePAD04 HMI panels are compact low cost products yet extremely rich in functionality. The ePAD03 and ePAD04 are the ideal replacement for panels of the MD00 Series. They generally outperform the equivalent products and can be used in all cases except when the 20 mA current loop interface is needed.

The products support the rich common functionality of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Dual-driver communication capability
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Scalable fonts for effective presentation of information.
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Recipe data storage. Recipe data can be transferred to an host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure keypad operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to an host computer using the Ethernet connection.
- Eight level password protection.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display		Alarms	
Type	Monochrome LCD	Event list	1024
Resolution	120x32	Event list	ePAD03 256
Rows/columns	4x20	Event list	ePAD04 -
Scalable fonts	Yes	Password	Yes
Active display area	70x21 mm	Hardware RTC	ePAD03 Yes, battery back-up
User definable characters	256	Hardware RTC	ePAD04 -
Backlight	LED	Screen saver	-
Contrast regulation	Software	Buzzer	-
Memory		Battery	ePAD03 3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
User memory	512 KB Flash	Battery	ePAD04 -
User memory expansion	-	Ratings	
Front panel		Power supply voltage	18 - 30 VDC
Touch screen	-	Current consumption	0.25 A at 24 VDC
Function keys	4, with slide-in legend	Fuse	Automatic
System keys	7	Weight	1 Kg
User LED's	5	Environmental Conditions	
System LED's	4	Operating temperature	-0046 0 to 50 °C
Interfaces		Operating temperature	-00B6 0 to 60 °C
PC/Printer port	-	Operating temperature	-00B7 -10 to 60 °C
PLC port	RS-232, RS-485, RS-422	Storage temperature	-20 to +70 °C
Aux port (fieldbus and Ethernet)	Yes, with optional modules	Operating and storage humidity	5 – 85 % RH non-condensing
Serial programming speed	ePAD03 9600 – 38400 bps ePAD04 9600 bps	Protection class	IP65 (front panel)
Functionality		Dimensions	
Number of variables per page	Unlimited	Faceplate LxH	149x109 mm (5.86"x4.29")
Dual driver capability	ePAD03 Yes ePAD04 No	Cutout AxB	136x96 mm (5.35"x3.78")
Recipe memory	ePAD03 16 KB ePAD04 -	Cutout depth	53 mm (2.08")
UniNet network	ePAD03 Client/Server ePAD04 Client		

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference EN 61000-6-4, 2001

Noise immunity EN 61000-6-2, 2001

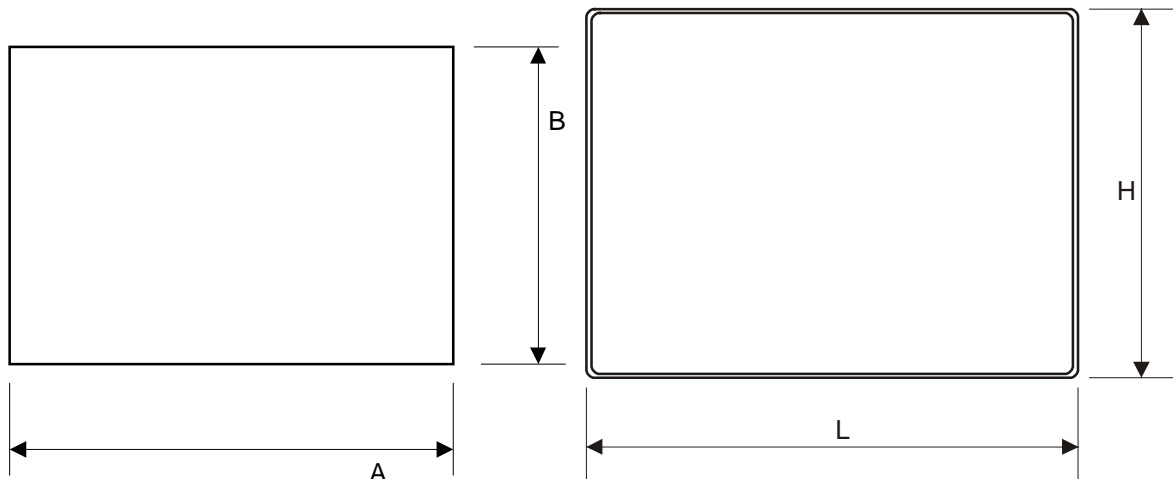


Figure 1 – Cutout and front view

Ordering Information

ePAD03-0046	Compact low-cost HMI with graphic display, recipes and Real Time Clock
ePAD03-00B6	Compact low-cost HMI with graphic display, recipes and Real Time Clock, extended operating temperature range
ePAD03-00B7	Compact low-cost HMI with graphic display, recipes and Real Time Clock, extended operating temperature range
ePAD04-0046	Compact low-cost HMI with graphic display
ePAD04-00B6	Compact low-cost HMI with graphic display, extended operating temperature range
ePAD04-00B7	Compact low-cost HMI with graphic display, extended operating temperature range
R-PRINT2298	Printable legends (5 A4 foils, 8 sets of legend per foil)

Tn187

Ver. 1.06

Copyright © 2005 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

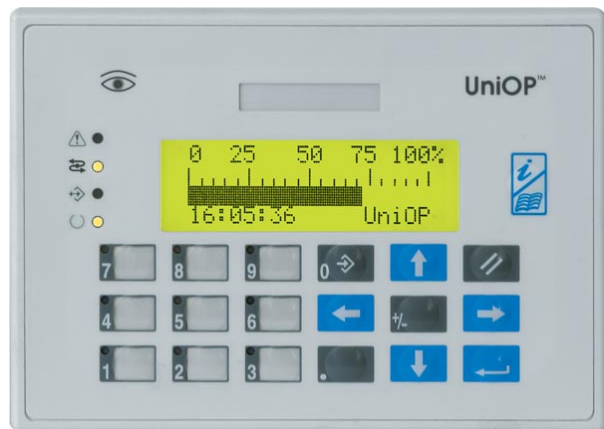
UniOP ePAD05 and ePAD06

Compact low-cost HMI with graphic display. The ePAD05 and ePAD06 panels set a new standard for entry-level HMI products, yet with full numeric data entry capabilities. They are the ideal complement for the successful ePAD03 and ePAD04 products.

These products are also available with extended operating temperature range for use in extreme environmental conditions.

Highlights

- **Monochrome graphic display 120x32 pixels**
- **Downloadable fonts**
- **Scalable text**
- **9 user programmable function keys with slide-in legends**
- **10 user programmable LED indicators**
- **Dual-driver communication**
- **Connection to industrial bus systems and Ethernet with optional modules**
- **IP65 front panel protection**
- **Version with extended operating temperature available**



The ePAD05 and ePAD06 HMI panels are compact low cost products yet extremely rich in functionality. The products support the rich common functionality of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer software
- Dual-driver communication capability,
- Scalable fonts for effective presentation of information.
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, DeviceNet, CANopen, Interbus) and Ethernet
- Display data in numerical, text and bargraph format
- Dynamic graphic objects
- Recipe data storage
- Keyboard macro editor
- Alarms and historical alarm list
- Eight level password protection

The ePAD05 and ePAD06 are the ideal solution to scale-down in size and price applications based on less compact and less performing products.

Technical Data

	ePAD05	ePAD06
Display	Monochrome LCD	
Backlight	LED	
Graphic resolution	120x32	
Active display area	70x21 mm	
Rows/columns	4x20	
Scalable fonts	Yes	
User definable characters	256	
Contrast regulation	Software	
Memory	512 KB	
User memory	512 KB	
User memory expansion	-	
Front panel	9, with slide-in legend	
Function keys	9, with slide-in legend	
System keys	10	
Touch screen	-	
User LED's	10	
System LED's	4	
Connections	No	
PC/Printer port	No	
PLC port	RS-232, RS-422, RS-485	
Aux port (fieldbus and Ethernet connection)	Yes, requires optional module	
Programming speed	9600 ÷ 38400 bps	9600 bps
Functionality	Unlimited	
Number of variables per page	Unlimited	
Dual-driver capability	Yes	-
Recipe memory	16 KB	-
UniNet network	Server/Client	Client
Alarms	1024	256
Event list	256	-
Alarm info page	Yes	
Password	Yes, 8 levels	
Battery	CR2430 (3V 270mA Lithium), non rechargeable, user replaceable. Replace with same type or equivalent compatible with the operating temperature of the product	-
Hardware RTC	Yes	-
Screen saver	-	
Buzzer	-	
Power supply voltage	18 ÷ 30 VDC	
Max power consumption	0.25 A at 24 VDC	
Fuse	Overcurrent protection device	

	ePAD05	ePAD06
Weight	1 Kg	
Operating temperature		
-0046	0 ÷ +50 °C	
-00B6	0 ÷ +60 °C	
-00B7	-20 ÷ +60 °C	
Storage temperature	-20 ÷ +70 °C	
Operating and storage humidity	5 ÷ 85 % RH non-condensing	
Protection class	IP65 (front panel)	

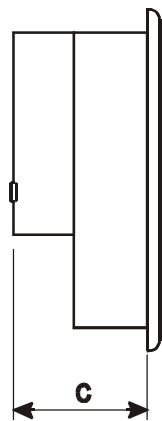
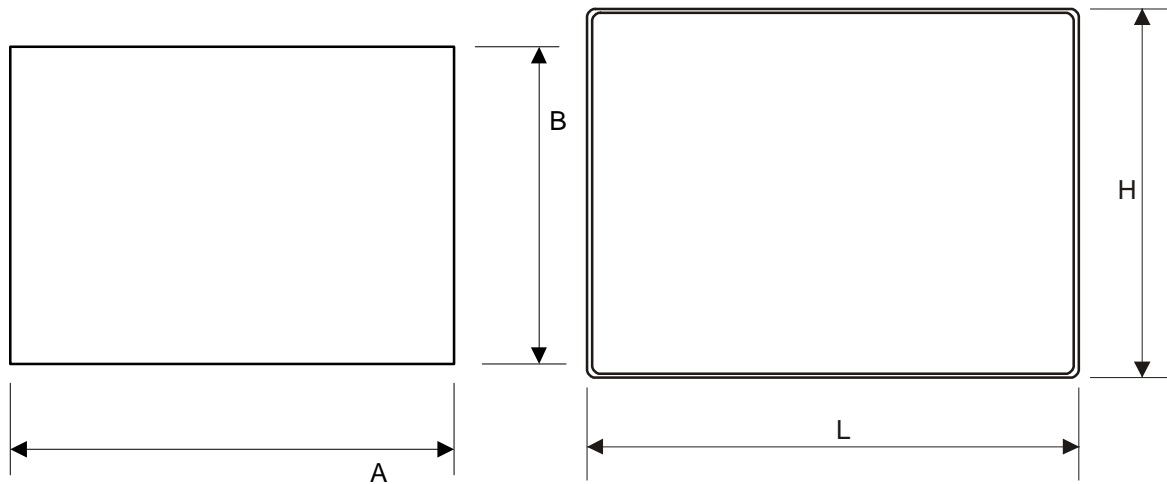
The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference EN 61000-6-4, 2001

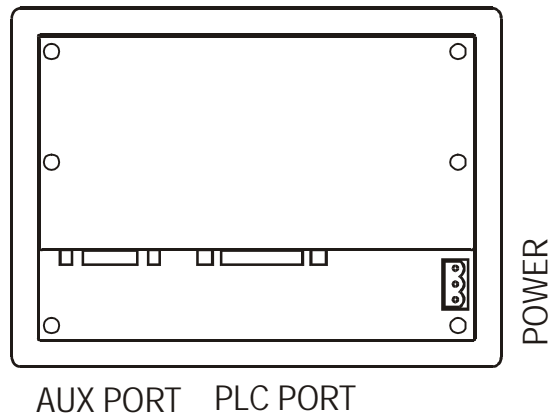
Noise immunity EN 61000-6-2, 2001

Front Dimensions and Cutout

Faceplate LxH	149x109 mm	5.86"x4.29"
Cutout AxB	136x96 mm	5.35"x3.78"
Cutout depth C	53 mm	2.08"
Max panel thickness	5 mm	0.19"



Connections



The product is compatible with all standard TCM and SCM modules.
To access the slot for the modules, remove the rear cover of the product






The backup battery in the ePAD05 is accessible for replacement after removing the rear cover.

The standard programming cable CA114 can be used with this product if a 15-pin female-female gender changer is applied on the PLC Port.

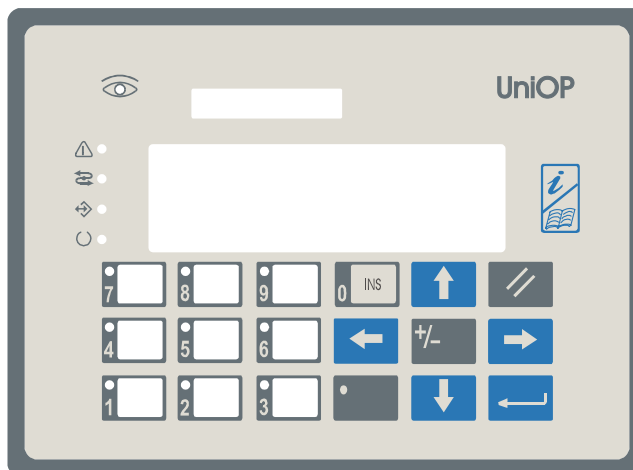
Indicators and keypad

There are several dedicated LED indicators on the front panel of the unit. Functionality is described in the table below.

Elements not listed in the table are reserved for future use.

LED	Color	Status	Meaning
	red	OFF	No hardware problem detected
		BLINK	Battery low
		ON	Hardware fault
	green	OFF	No key pressed and no touch cell active
		ON	Key pressed or touch cell active (visual feedback)
	green	OFF	Hardware fault
		ON	Unit in operation
	green	BLINK	Communication error
		ON	Communication OK
	red	OFF	No alarms
		BLINK	Alarm requires acknowledgment
		ON	Alarm active
	green		May be user controlled as LED number 65 using the Macro Editor. Turns ON when recipe/event backup is being performed.

The layout of the front panel is shown in the figure below.



The RDA mapping of LED indicators is shown in the table below.

RDA Bit	LED on Key
L18	1
L19	2
L20	3
L21	4
L22	5
L23	6
L24	7
L24	8
L26	9

The RDA mapping of all keys is standard.

Function keys associated to keys 1 to 9 have a slide-in legend. Legend strips in laser printable form are available as accessories.

Ordering Information

ePAD05-0046	Compact low-cost HMI with graphic display and Real Time Clock
ePAD05-00B6	Compact low-cost HMI with graphic display and Real Time Clock, extended operating temperature range
ePAD05-00B7	Compact low-cost HMI with graphic display and Real Time Clock, extended operating temperature range
ePAD06-0046	Compact low-cost HMI with graphic display
ePAD06-00B6	Compact low-cost HMI with graphic display, extended operating temperature range
ePAD06-00B7	Compact low-cost HMI with graphic display, extended operating temperature range
R-PRINT3148	Printable legends (5 A4 foils, 10 sets of legends per foil)

Tn193

© 2003, 2004 Sitek S.p.A. Italy

Subject to change without notice.

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

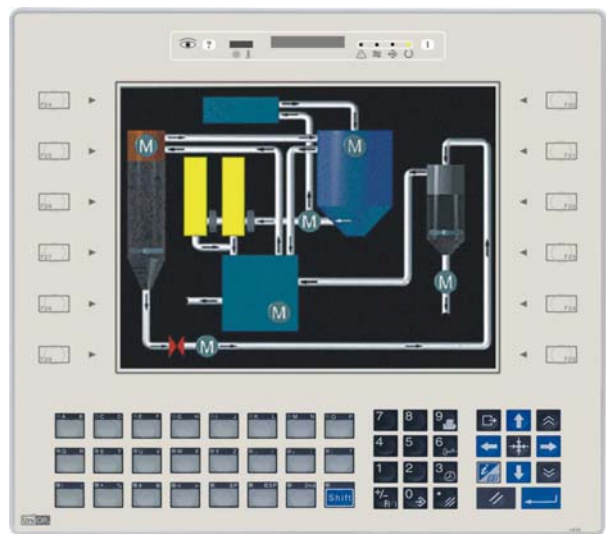
UniOP ePAD30, ePAD32

The ePAD30 and 32 are state-of-the-art HMI devices with a 10.4" graphic display (9.6" for the monochrome version) and a complete keypad. The aluminum bezel offers an appealing look in a rugged and convenient flat design.

The product is also available with a touchscreen option.

Highlights

- Available in TFT color and monochrome
- VGA (640x480 pixels) resolution
- Available also with touchscreen option
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- Compatible with HMIcontrol and local I/O subsystems
- Large memory size (8 MB Flash) with removable media
- IP65 front panel protection



The ePAD HMI panels feature a fully equipped keypad with plenty of function keys. All of the ePAD products support the rich common functionality of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, DeviceNet, Interbus, CANopen) and Ethernet
- Display data in numerical, text and bargraph format
- Dynamic graphic objects
- Data acquisition and trend presentation
- Analog gauges
- Recipe data storage
- Keyboard macro editor
- Alarms and historical alarm list
- Eight level password protection
- Report printing to serial printer

Technical Data

The product is available in three versions that differ only by display type.

	Display	Colors	Backlight	Lifetime
ePAD30, ePAD30T	TFT color LCD	256	CCFL	50.000 h
ePAD32	Monochrome LCD	-	CCFL	25.000 h

Display	
Graphic resolution	640x480 pixels
Active display area	218x159 mm (10.4" diagonal) / 196x147.6 mm (9.6" diagonal)
Rows/columns	30x80
Character height	-
Scalable fonts	Yes
User definable characters	256
Contrast regulation	Software with temperature compensation (only ePAD32)
Memory	
User memory	8 MB SSFDC memory card
User memory expansion	max 16 MB SSFDC memory card
Front panel	
Function keys	35
System keys	24
Touch screen	Resistive for ePAD30T
User LED's	24
System LED's	4
Connections	
PC/Printer port	Yes
PLC port	RS-232, RS-485, RS-422, 20 mA CL
Aux port (fieldbus and Ethernet connection)	Yes, with optional modules
External keyboard port	No
Programming speed	9600 - 38400 bps
Functionality	
Number of variables per page	Unlimited
Recipe memory	32 KB
Data acquisition and trends	Yes
UniNet network	Client/Server
Alarms	1024
Event list	1024
Alarm info page	Yes
Password	Yes
Battery	Yes
Hardware RTC	Yes, battery backed
Screen saver	Yes
Buzzer	Yes
Power supply voltage	18 - 30 VDC
Max power consumption	~ 700 mA at 24 VDC

Fuse	Automatic
Weight	~ 2.5 Kg
Operating temperature	0 to 45 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 - 85 % RH non-condensing
Protection class	IP65 (front panel)

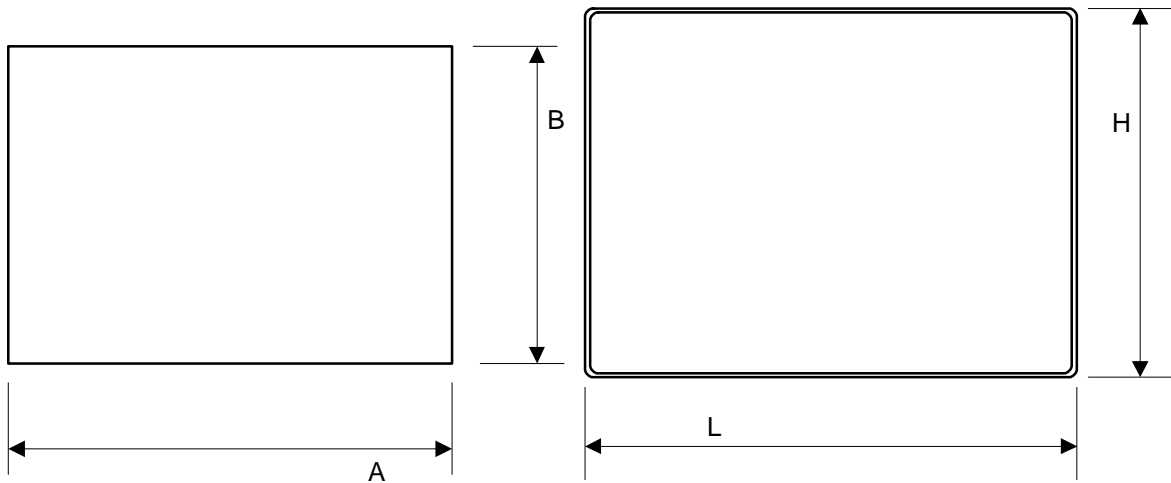
The product is designed for installation in an industrial environment in compliance with the regulations:

Emitted interference EN 61000-6-4, 2001

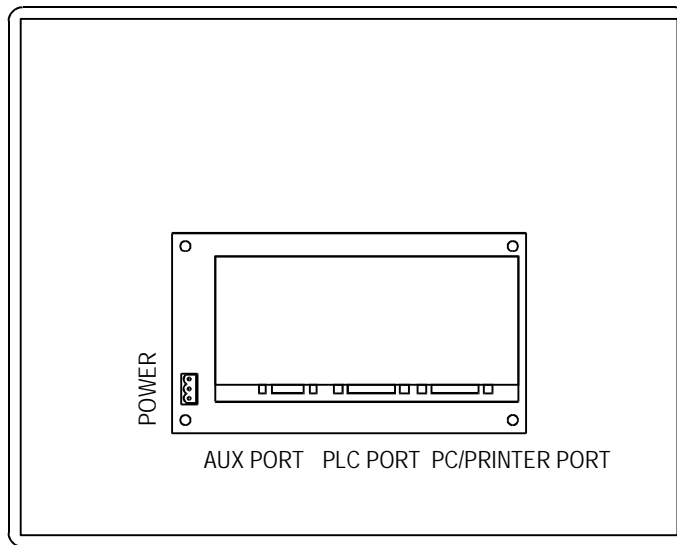
Noise immunity EN 61000-6-2, 2001

Front Dimensions and Cutout

Faceplate LxH	311x276 mm	12.24x10.87"
Cutout AxH	292x257 mm	11.50x10.12"
Cutout depth (version -0050)	91 mm	3.58"
Max panel thickness	5 mm	0.2"

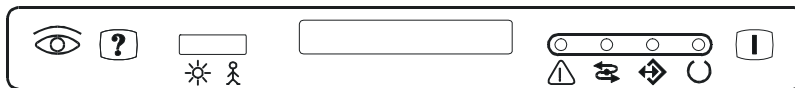


Connections



Indicators and keypad

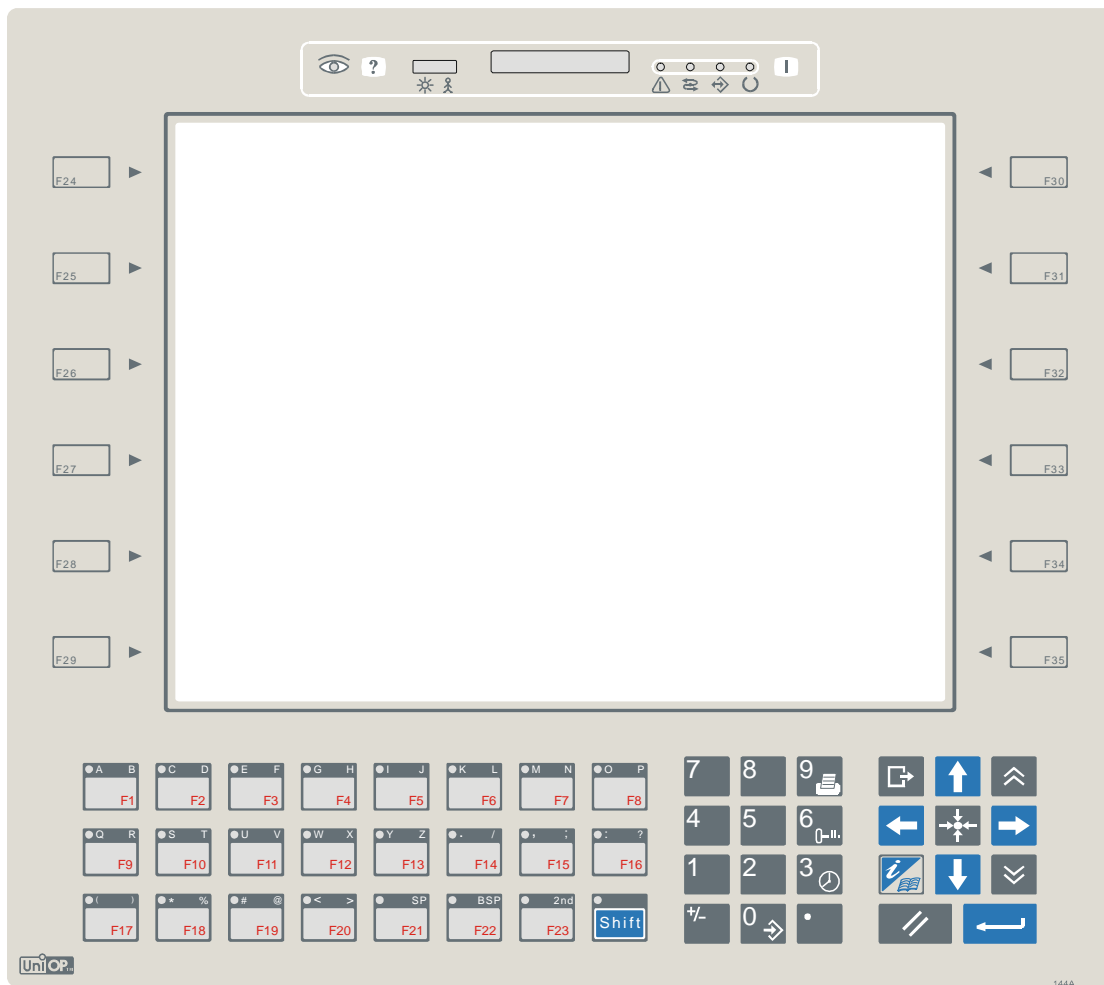
There are several dedicated LED indicators on the front panel of the unit. Functions are described in the table below.



Elements not listed in the table are reserved for future use.

LED	Color	Status	Meaning
👁️	red	OFF	No hardware problem detected
		BLINK	Battery low
		ON	Hardware fault
👁️	green	OFF	No key pressed and no touch cell active
		ON	Key pressed or touch cell active (visual feedback)
🔄	green	OFF	Hardware fault
		ON	Unit in operation
🔄	green	BLINK	Communication error
		ON	Communication OK
⚠️	red	OFF	No alarms
		BLINK	Alarm requires acknowledgment
		ON	Alarm active
↔️	green		May be user controlled as LED number 65 using the Macro Editor. Turns ON when recipe/event backup is being performed.

The layout of the front panel is shown in the figure below. Please note that the labels F1 to F23 are not present in the real product.





The RDA mapping of LED indicators is shown in the table below.

RDA Bit	LED on Key
L1	F1
L2	F2
L3	F3
L4	F4
L5	F5
L6	F6
L7	F7
L8	F8
L9	F9
L10	F10
L11	F11
L12	F12
L13	F13
L14	F14
L15	F15
L16	F16

RDA Bit	LED on Key
L17	F17
L18	F18
L19	F19
L20	F20
L21	F21
L22	F22
L23	F23
L24	
L25	
L26	
L27	
L28	
L29	
L30	
L31	
L32	

The RDA mapping of all keys is standard. Note that not all keys are mapped to an RDA bit.

The service area at the top of the product includes also two buttons.

Button	Description
	User programmable with the Keyboard Macro Editor. Not available in RDA. Designer 5.08 SP7 or higher is required.
	Reserved for future use

Function keys from F1 to F23 have a slide-in legend. Legend strips are available as accessories in laser printable format.

Ordering Information

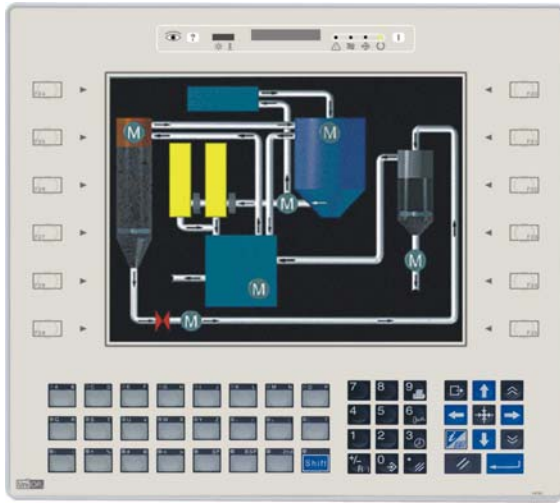
ePAD30-0050
ePAD32-0050
ePAD30T-0050
R-PRINT2852

10.4" TFT color display
9.6" monochrome display
10.4" TFT color display and resistive touchscreen
Printable legends (5 A4 foils, 5 sets of legends per foil)

UniOP ePAD32B, ePAD33B and ePAD33BT

The ePAD32B, ePAD33B and ePAD33BT are state-of-the-art HMI devices with a VGA graphic display and a complete keypad. The aluminum bezel offers an appealing look in a rugged and convenient flat design.

The product is also available with a touchscreen option.



- 9.6" monochrome and 10.4" TFT color displays
- VGA (640x480 pixel) resolution
- 64K colors (ePAD33B and ePAD33BT)
- Resistive touchscreen (ePAD33BT)
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- Compatible with video input module (ePAD33B and ePAD33BT)
- 32 MB internal user memory

Highlights

The ePAD3xB HMI panels are part of the UniOP family of HMI products. All of the ePAD products support the rich common functionalities of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Vector graphic capabilities including the support of multiple layers and object transparency.
- Video input option (ePAD33B and ePAD33BT)
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display		Functionality	
Type	ePAD32B monochrome ePAD33B TFT ePAD33BT TFT	Vector graphics	Yes
Resolution	VGA, 640x480 pixel	Dual driver capability	Yes
Active display area	ePAD32B 196x147 mm (9.6" diagonal) ePAD33B 218x159 mm (10.4" diagonal) ePAD33BT 218x159 mm (10.4" diagonal)	Video input	ePAD32B No ePAD33B Yes ePAD33BT Yes
Colors	ePAD32B 8 grey shades ePAD33B 64K ePAD33BT 64K	Data acquisition and trends	Yes
Backlight	ePAD32B CCFL ePAD33B CCFL, 50 Kh ^(note 1) ePAD33BT CCFL, 50 Kh ^(note 1)	Recipe memory	32 KB
Brightness	ePAD32B 100 cd/m ² typ. ePAD33B 450 cd/m ² typ. ePAD33BT 450 cd/m ² typ.	UniNet network	Client/Server
Dimming	ePAD32B No ePAD33B Yes ePAD33BT Yes	Alarms	1024
Memory		Event list	1024
User memory	32 MB internal Flash	Password	Yes
User memory expansion	Optional removable 32 MB SSFDC memory card	Hardware RTC	Yes, battery backed
Front panel		Screen saver	Yes
Touch screen	Analog resistive (ePAD33BT)	Buzzer	Yes, audible feedback for keyboard and touch screen
Function keys	35	Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
System keys	24	Ratings	
User LED's	24	Power supply voltage	24 V DC (18 to 30 V DC)
System LED's	4	Current consumption	Max 0.7 A at 24 VDC
Interfaces		Fuse	Automatic
PC/Printer port	Yes	Weight	Approx 2.3 Kg
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop	Environmental Conditions	
Aux port (fieldbus and Ethernet)	Yes, with optional modules	Operating temperature	0 to 45 °C
DX port (video input)	ePAD32B No ePAD33B Yes ePAD33BT Yes	Storage temperature	-20 to +70 °C
Serial programming speed	9600 – 38400 bps	Operating and storage humidity	5 – 85 % RH non-condensing
		Protection class	IP65 (front panel)
		Dimensions	
		Faceplate LxH	311x276 mm (12.24x10.87")
		Cutout AxB	292x257 mm (11.50x10.12")
		Mounting depth (type 0050)	91 mm (3.58")
		Max panel thickness	5 mm (0.2")

Note 1: the lamp lifetime is the typical value for continuous operation at 25°C.

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference EN 61000-6-4, 2001
Noise immunity EN 61000-6-2, 2001

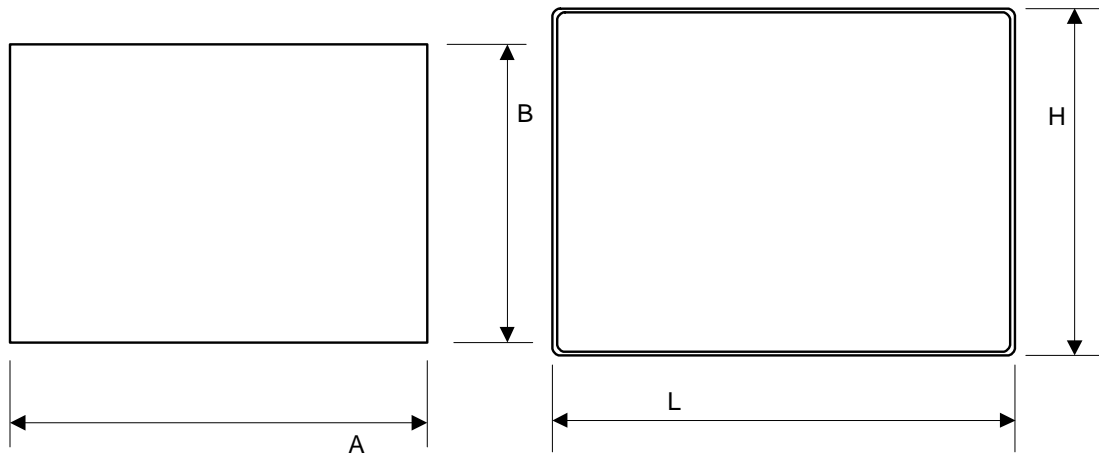


Figure 1 – Cutout and front view

Ordering Information

ePAD32B-0050
ePAD33B-0050
ePAD33BT-0050

9.6" VGA monochrome panel with keypad
10.4" VGA TFT color panel with keypad
10.4" VGA TFT color panel with keypad and touchscreen

Tn221

Ver. 1.00

Copyright © 2004 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of

UniOP ePALM10

The ePALM10 is a state-of-the-art handheld HMI device with a graphic display and a keypad. The rugged polyamide enclosure offers a high level of shock and environmental resistance making the ePALM the ideal choice for use in the factory floor.



- Graphical display 120x64 pixels (up to 8 lines 20 characters)
- Highly visible transfective LCD display
- 27-keys keypad with tactile feedback
- Connection to industrial bus systems
- Large memory size (512 KB Flash)
- IP65 protection
- Includes Emergency Stop button
- Includes enabling switches, normal or 3-positions
- Available in version for connection to Ethernet and Profibus DP

Highlights

The ePALM HMI panels are the handheld products of the UniOP family. All of the ePALM products support the rich common functionality of the UniOP operator panels:

- Versions available for connection to Ethernet and Profibus DP. Ethernet version allows connection to field devices as well as programming the HMI from Designer.
 - Powerful and intuitive programming with the UniOP Designer 6 software
 - Support of more than 130 communication drivers for industrial devices
 - Transfective LCD display ensures readability under the most critical light conditions
 - Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
 - Display dynamic data in numerical, text, bargraph and graphic image formats
 - Recipe data storage. Recipe data can be transferred to an host computer using the Ethernet connection.
 - Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
 - Powerful macro editor to configure keypad operation
 - Alarms and historical alarm list. Alarm and event information can be printed or transferred to an host computer using the Ethernet connection.
 - Eight level password protection.
 - Report printing to serial printer. Reports are freely configurable using Designer.
 - Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.
- In addition some unique features make the ePALM10 a perfect fit for handheld operation.
- Emergency Stop button. Hardwired.
 - Enabling switches. Hardwired.
 - High-quality polyurethane cable for mobile applications.

Technical Data

Display	
Type	Transflective LCD monochrome
Resolution	120x64 pixel
Active display area	66x33 mm
Backlight	LED
Dimming	-
Contrast	Software
Memory	
User memory	512 KB Flash
User memory expansion	-
Front panel	
Touch screen	-
Function keys	9
System keys	18
User LED's	20
System LED's	5
Interfaces	
PC/Printer port	See below
PLC port	See below
Aux port (fieldbus and Ethernet)	See below
Serial programming speed	9600 – 38400 bps
Functionality	
Vector graphics	-
Dual driver capability	-
Data acquisition and trends	-
Recipe memory	16 KB
UniNet network	Client/Server

Alarms	
Event list	1024
Password	256
Hardware RTC	Yes
Screen saver	Yes, battery backed
Buzzer	-
Battery	-
Ratings	
Power supply voltage	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
Current consumption	18 - 30 VDC
Fuse	~ 300 mA at 24 VDC
Weight	Automatic
Min thickness of cable	~ 0.5 Kg (not including cable)
Max thickness of cable	7 mm diameter
Environmental Conditions	
Operating temperature	11 mm diameter
Storage temperature	0 to 50 °C
Operating and storage humidity	-20 to +70 °C
Protection class	5 – 85 % RH non-condensing
Dimensions	
A	IP65
B	116 mm (4.56")
C	86 mm (3.38")
D	102 mm (4.01")
	239 mm (9.41")

The product is designed for installation in industrial environments in compliance with the regulations:
 Emitted interference EN 61000-6-4, 2001
 Noise immunity EN 61000-6-2, 2001
 All circuits in this handheld product, including the wiring of the emergency stop button and the enabling switches, must be considered SELV circuits. They will have to be wired in compliance with EN 60950.

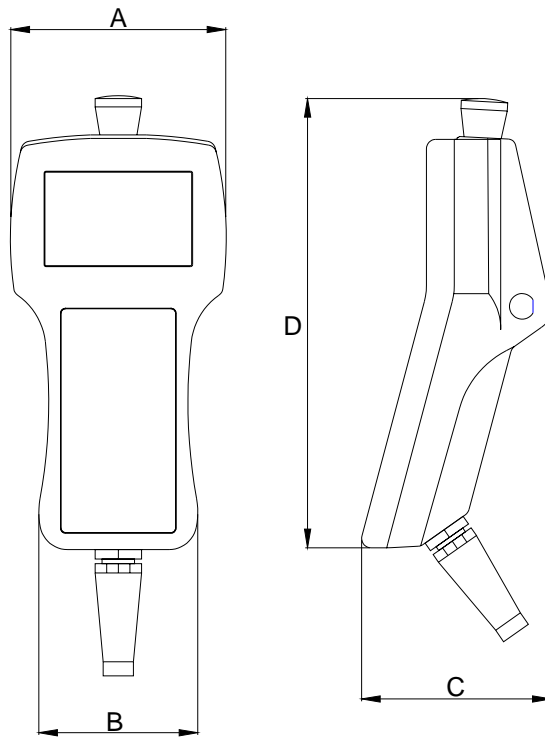


Figure 1 – Cutout and front view

Model	Cable Type/Length	PC/Printer Port	PLC Port	Module	Enabling switches
ePALM10-0061	Serial/5m	Yes	Yes	-	two normal
ePALM10-0062	Serial/10m	Yes	Yes	-	two normal
ePALM10-3P61	Serial/5m	Yes	Yes	-	one 3-position
ePALM10-3P62	Serial/10m	Yes	Yes	-	one 3-position
ePALM10-0066	Ethernet/5m	-	-	SCM11	one 3-position
ePALM10-0068	Ethernet/10m	-	-	SCM11	one 3-position
ePALM10-0069	Profibus DP/5m	Yes	-	TCM08	one 3-position
ePALM10-0067	Profibus DP/10m	Yes	-	TCM08	one 3-position

Ordering Information

ePALM10-0061	ePALM10 handheld HMI with cable for serial connection (length 5 meters)
ePALM10-0062	ePALM10 handheld HMI with cable for serial connection (length 10 meters)
ePALM10-3P61	ePALM10 handheld HMI with cable for serial connection (length 5 meters), one 3-positions enabling switch
ePALM10-3P62	ePALM10 handheld HMI with cable for serial connection (length 10 meters) , one 3-positions enabling switch
ePALM10-0066	ePALM10 handheld HMI with cable for Ethernet connection (length 5 meters), includes SCM11 and one 3-positions enabling switch
ePALM10-0068	ePALM10 handheld HMI with cable for Ethernet connection (length 10 meters), includes SCM11 and one 3-positions enabling switch
ePALM10-0069	ePALM10 handheld HMI with cable for Profibus DP connection (length 5 meters), includes TCM08 and one 3-positions enabling switch
ePALM10-0067	ePALM10 handheld HMI with cable for Profibus DP connection (length 10 meters), includes TCM08 and one 3-positions enabling switch
AHOOK01	Hook set without magnet
AHOOK02	Hook set with magnet

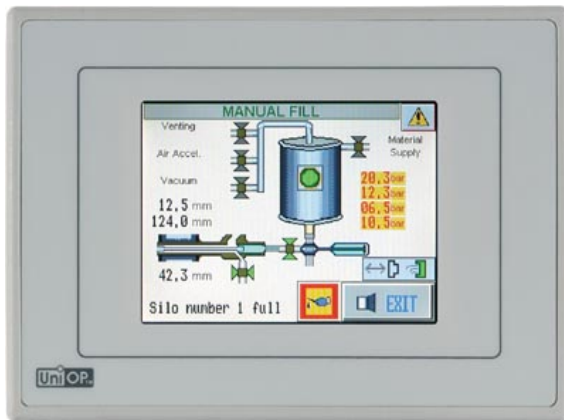
Tn151**Ver. 1.11****Copyright © 2004 Sitek S.p.A. – Verona, Italy**

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP02

The eTOP02 is a compact HMI device with a brilliant TFT display and touchscreen interface. It is the ideal solution for applications where low cost and small size, without compromising performance, are a requirement.



- 3.5" TFT color display
- 256 colors
- 1/4 VGA (320x240 pixel) resolution
- Resistive touchscreen
- 1 MB user memory
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)

Highlights

The eTOP02 panel is a compact and low-cost product. It supports the rich common functionalities of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Advanced graphic capabilities
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display	
Type	TFT
Resolution	¼ VGA, 320x240 pixel
Active display area	3.5" diagonal (71.5x53.6 mm)
Colors	256
Backlight	LED
Brightness	150 cd/m ² typ.
Dimming	Yes
Memory	
User memory	1 MB internal Flash
User memory expansion	-
Front panel	
Touch screen	Analog resistive
Function keys	-
System keys	-
User LED's	-
System LED's	-
Interfaces	
PC/Printer port	-
PLC port	RS-232, RS-485, RS-422
Aux port (fieldbus and Ethernet)	Yes, with optional modules
DX port (video input)	No
Serial programming speed	9600 – 38400 bps
Functionality	
Vector graphics	No
Dual driver capability	Yes
Video input	No
Data acquisition and trends	No

Recipe memory	32 KB
UniNet network	Client/Server
Alarms	1024
Event list	256
Password	Yes
Hardware RTC	Yes, battery backed
Screen saver	Yes
Buzzer	No
Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
Ratings	
Power supply voltage	24 V DC (18 to 30 V DC)
Current rating	0.4 A at 24 VDC
Fuse	Automatic
Weight	Approx 1.0 Kg
Environmental Conditions	
Operating temperature	0 to 50 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 – 85 % RH non-condensing
Protection class	IP65 (front panel)
Dimensions	
Faceplate LxH	149x109 mm (5.86x4.29")
Cutout AxB	136x96 mm (5.35x3.78")
Mounting depth	56 mm (2.40")

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference EN 61000-6-4, 2001

Noise immunity EN 61000-6-2, 2001

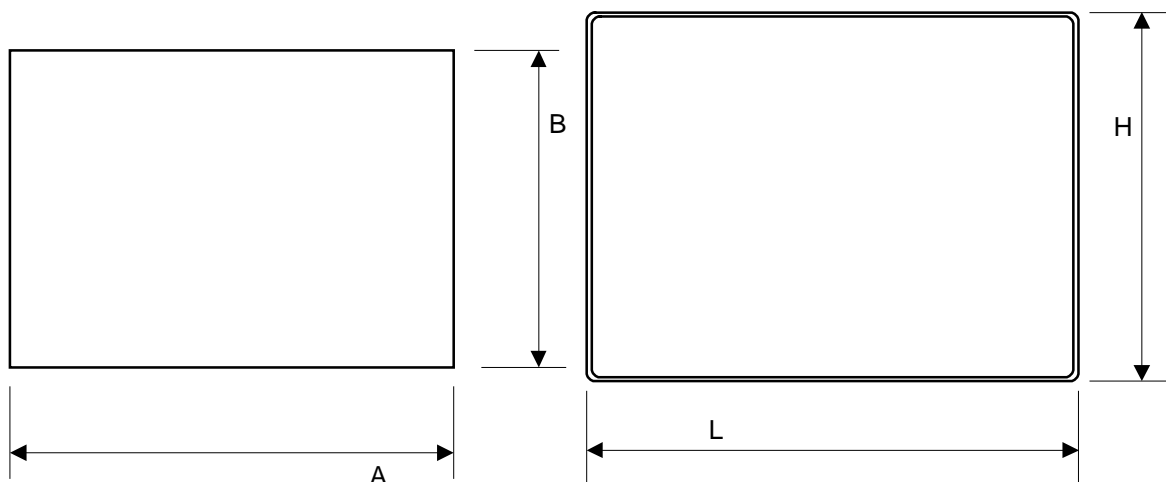


Figure 1 – Cutout and front view

Ordering Information

eTOP02-0046
PROT-07

3.5" 1/4 VGA TFT color panel with touchscreen
Disposable protection film for 3.5"/3.8" eTOP touch panels (10 pieces)

Tn225

Ver. 1.00

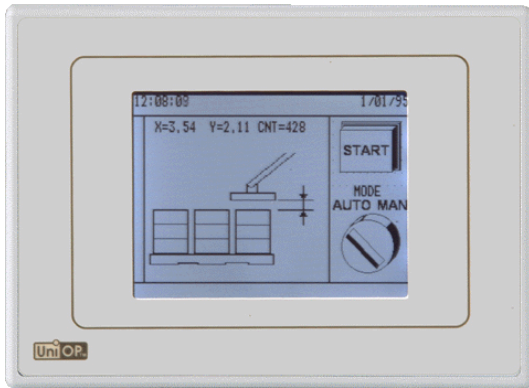
Copyright © 2006 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP03

The eTOP03 is a low-cost HMI device with touchscreen interface and 3.8" monochrome graphic display. The very compact size and the 1/4 VGA resolution make it the optimal solution for a tight budget without compromising quality and performance. Portrait mode (vertical mode) operation enhances the flexibility and makes the product suitable to even more application areas.



- 3.8" monochrome display with white LED backlight
- 1/4 VGA (320x240 pixel) resolution
- Portrait mode operation
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- 512 KB user memory

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionality of the UniOP operator panels. The eTOP03 is mechanically compatible with the eTOP02 and with the popular ePAD03-ePAD06 panels.

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display	
Type	Monochrome LCD
Resolution	¼ VGA, 320x240 pixel
Active display area	3.8" diagonal (77x58 mm)
Colors	-
Backlight	White LED
Brightness	60 cd/m ² typ.
Dimming	No
Contrast regulation	Software
Memory	
User memory	512 KB Flash
User memory expansion	-
Front panel	
Touch screen	Analog resistive
Function keys	-
System keys	-
User LED's	-
System LED's	-
Interfaces	
PC/Printer port	-
PLC port	RS-232, RS-485, RS-422
Aux port (fieldbus and Ethernet)	Yes, with optional modules
DX port (video input)	No
Serial programming speed	9600 – 38400 bps
Functionality	
Vector graphics	No
Dual driver capability	Yes
Video input	No
Data acquisition and trends	No

Recipe memory	32 KB
UniNet network	Client/Server
Alarms	1024
Event list	256
Password	Yes
Hardware RTC	Yes, battery backed
Screen saver	Yes
Buzzer	-
Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
Ratings	
Power supply voltage	24 V DC (18 to 30 V DC)
Current consumption	Max 0.4 A at 24 VDC
Fuse	Automatic
Weight	Approx 1 Kg
Environmental Conditions	
Operating temperature	0 to 50 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 – 85 % RH non-condensing
Protection class	IP65 (front panel)
Dimensions	
Faceplate LxH	149x109 mm (5.86x4.29")
Cut-out AxB	136x96 mm (5.35x3.78")
Mounting depth (type 0046)	61 mm (2.40")

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference EN 61000-6-4, 2001
 Noise immunity EN 61000-6-2, 2001

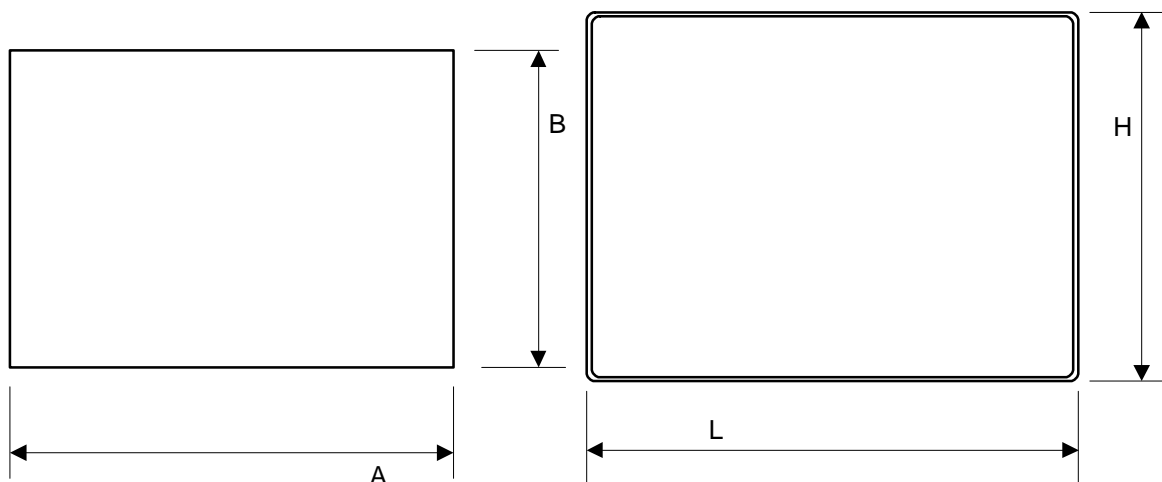


Figure 1 – Cut-out and front view

Ordering Information

eTOP03-0046
PROT-07

3.8" ¼ VGA monochrome graphic HMI with touchscreen
Disposable protection film for 3.5"/3.8" eTOP touch panels (10 pieces)

Tn184
Ver. 1.04

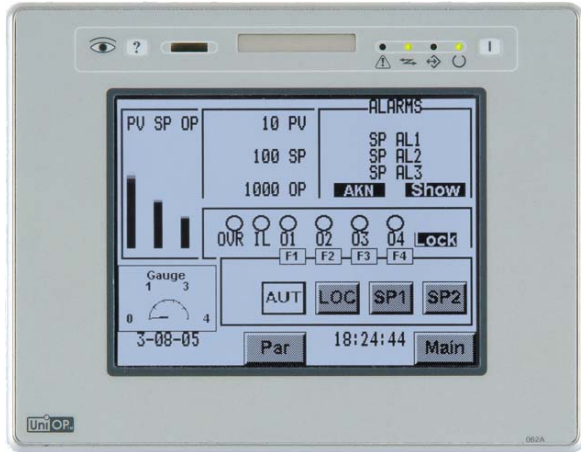
Copyright © 2006 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP05

The eTOP05 is a low-cost HMI device with touchscreen interface and 5.6" monochrome graphic display. The compact size and the 1/4 VGA resolution make it the optimal solution for a tight budget compromising quality and performance.



- 5.6" monochrome display with white LED backlight
- 1/4 VGA (320x240 pixel) resolution
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- 32 MB user memory

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionalities of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display	
Type	Monochrome LCD
Resolution	¼ VGA, 320x240 pixel
Active display area	121x91 mm (5.6" diagonal)
Colors	-
Backlight	White LED
Brightness	60 cd/m ² typ.
Dimming	No
Contrast regulation	Software
Memory	
User memory	32 MB Flash Card
User memory expansion	-
Front panel	
Touch screen	Analog resistive
Function keys	1
System keys	-
User LED's	1
System LED's	4
Interfaces	
PC/Printer port	Yes
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop
Aux port (fieldbus and Ethernet)	Yes, with optional modules
DX port (video input)	No
Serial programming speed	9600 – 38400 bps
Functionality	
Vector graphics	No
Dual driver capability	Yes
Video input	No
Data acquisition and trends	Yes

Recipe memory	32 KB
UniNet network	Client/Server
Alarms	1024
Event list	1024
Password	Yes
Hardware RTC	Yes, battery backed
Screen saver	Yes
Buzzer	Yes, audible feedback for touch screen
Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.

Ratings	
Power supply voltage	24 V DC (18 to 30 V DC)
Current consumption	Max 0.6 A at 24 VDC
Fuse	Automatic
Weight	Approx 1.4 Kg

Environmental Conditions	
Operating temperature	0 to 50 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 – 85 % RH non-condensing
Protection class	IP65 (front panel)

Dimensions	
Faceplate LxH	187x147 mm (7.36x5.79")
Cutout AxB	176x136 mm (6.93x5.35")
Mounting depth (type 0045)	79 mm (3.12")

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference EN 61000-6-4, 2001
 Noise immunity EN 61000-6-2, 2001

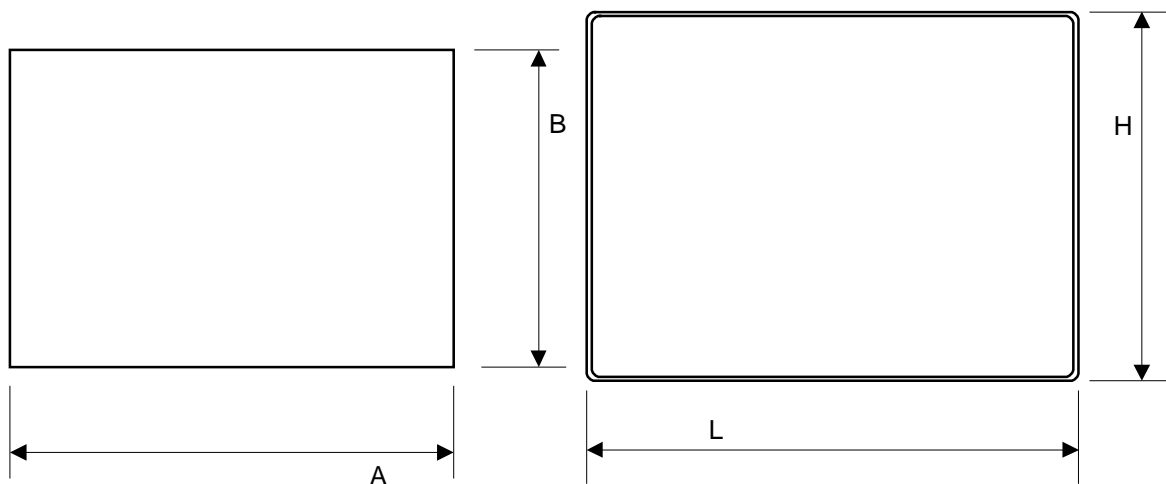


Figure 1 – Cutout and front view

Ordering Information

eTOP05-0045
PROT-03

5.6" ¼ VGA monochrome graphic HMI with touchscreen
Disposable protection foil for 5.6" eTOP touch panels (10 pieces)

Tn170

Ver. 1.05

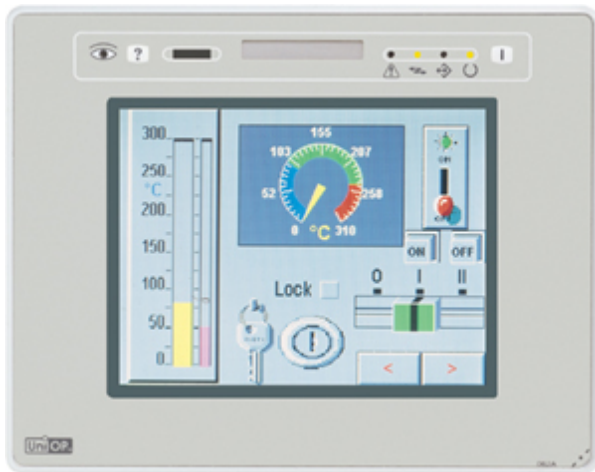
Copyright © 2006 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP10B and eTOP11EB

The eTOP10B and eTOP11EB are state-of-the-art HMI devices with touchscreen interface and 5.6" TFT and STN color graphic displays. Support for 64K colors in the brilliant TFT display will increase the realism of the images. The compact size and the 1/4 VGA resolution make them an attractive solution where space is a premium without compromising performance.



- 5.6" TFT and STN color displays
- 1/4 VGA (320x240 pixel) resolution
- 64K colors (eTOP10B only)
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- Compatible with video input module (eTOP10B only)
- 32 MB internal user memory

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionalities of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Vector graphic capabilities including the support of multiple layers and object transparency.
- Video input option (eTOP10B only)
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display		Data acquisition and trends	
Type	eTOP10B TFT eTOP11EB STN	Recipe memory	Yes
Resolution	1/4 VGA, 320x240 pixel	UniNet network	32 KB
Active display area	121x91 mm (5.6" diagonal)	Alarms	Client/Server
Colors	eTOP10B 64K eTOP11EB 256	Event list	1024
Backlight	eTOP10B CCFL, 50K h ^(note 1) eTOP11EB CCFL, 75K h ^(note 1)	Password	1024
Brightness	eTOP10B 330 cd/m ² typ. eTOP11EB 330 cd/m ² typ.	Hardware RTC	Yes
Dimming	eTOP10B Yes eTOP11EB No	Screen saver	Yes, battery backed
Memory		Buzzer	Yes
User memory	32 MB internal Flash	Battery	Yes, audible feedback for touch screen
User memory expansion	Optional removable 32 MB SSFDC memory card	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.	
Front panel		Ratings	
Touch screen	Analog resistive	Power supply voltage	24 V DC (18 to 30 V DC)
Function keys	1	Current consumption	Max 0.6 A at 24 VDC
System keys	-	Fuse	Automatic
User LED's	1	Weight	Approx 1.4 Kg
System LED's	4	Environmental Conditions	
Interfaces		Operating temperature	0 to 45 °C
PC/Printer port	Yes	Storage temperature	-20 to +70 °C
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop	Operating and storage humidity	5 – 85 % RH non-condensing
Aux port (fieldbus and Ethernet)	Yes, with optional modules	Protection class	IP65 (front panel)
DX port (video input)	eTOP10B Yes eTOP11EB No	Dimensions	
Serial programming speed	9600 – 38400 bps	Faceplate LxH	187x147 mm (7.36x5.79")
Functionality		Cutout AxB	176x136 mm (6.93x5.35 ")
Vector graphics	Yes	Mounting depth (type 0050)	91 mm (3.58")
Dual driver capability	Yes	Max panel thickness	5 mm (0.2")
Video input	eTOP10B Yes eTOP11EB No		

Note 1: the lamp lifetime is the typical value for continuous operation at 25°C.

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference	EN 61000-6-4, 2001
Noise immunity	EN 61000-6-2, 2001

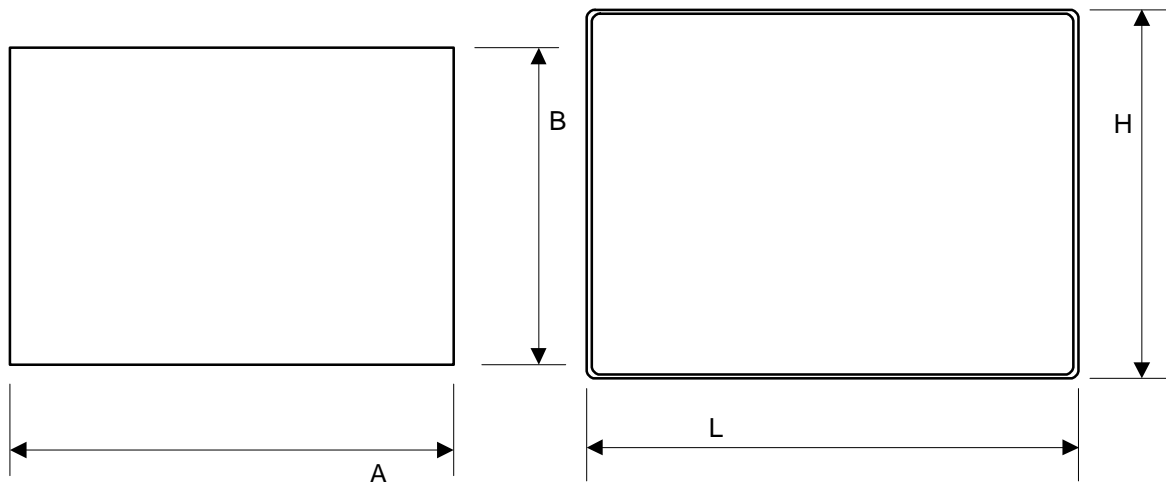


Figure 1 – Cutout and front view

Ordering Information

eTOP10B-0050
eTOP11EB-0050

5.6" 1/4 VGA TFT color panel with touchscreen
5.6" 1/4 VGA STN color panel with touchscreen

Tn215
Ver. 1.00

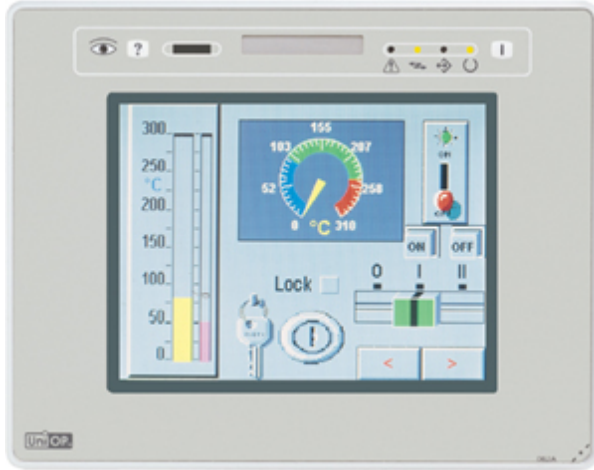
Copyright © 2004 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP11

The eTOP11 is a low-cost HMI device with touchscreen interface and 5.6" STN graphic display. The compact size and the 1/4 VGA resolution make it an attractive solution where space is a premium without compromising performance.



- 5.6" STN color display
- 1/4 VGA (320x240 pixel) resolution
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- 32 MB user memory
- Compatible with local I/O

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionalities of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display	
Type	STN
Resolution	¼ VGA, 320x240 pixel
Active display area	121x91 mm (5.6" diagonal)
Colors	16
Backlight	CCFL, 75K h ^(note 1)
Brightness	330 cd/m ² typ.
Dimming	No
Contrast regulation	Software
Memory	
User memory	32 MB Flash Card
User memory expansion	-
Front panel	
Touch screen	Analog resistive
Function keys	1
System keys	-
User LED's	1
System LED's	4
Interfaces	
PC/Printer port	Yes
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop
Aux port (fieldbus and Ethernet)	Yes, with optional modules
DX port (video input)	No
Serial programming speed	9600 – 38400 bps
Functionality	
Vector graphics	No
Dual driver capability	Yes
Video input	No
Data acquisition and trends	Yes

Recipe memory	32 KB
UniNet network	Client/Server
Alarms	1024
Event list	1024
Password	Yes
Hardware RTC	Yes, battery backed
Screen saver	Yes
Buzzer	Yes, audible feedback for touch screen
Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
Ratings	
Power supply voltage	24 V DC (18 to 30 V DC)
Current consumption	Max 0.6 A at 24 VDC
Fuse	Automatic
Weight	Approx 1.4 Kg
Environmental Conditions	
Operating temperature	0 to 45 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 – 85 % RH non-condensing
Protection class	IP65 (front panel)
Dimensions	
Faceplate LxH	187x147 mm (7.36x5.79")
Cutout AxB	176x136 mm (6.93x5.35 ")
Mounting depth (type 0050)	91 mm (3.58")

Note 1: the lamp lifetime is the typical value for continuous operation at 25°C.

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference	EN 61000-6-4, 2001
Noise immunity	EN 61000-6-2, 2001

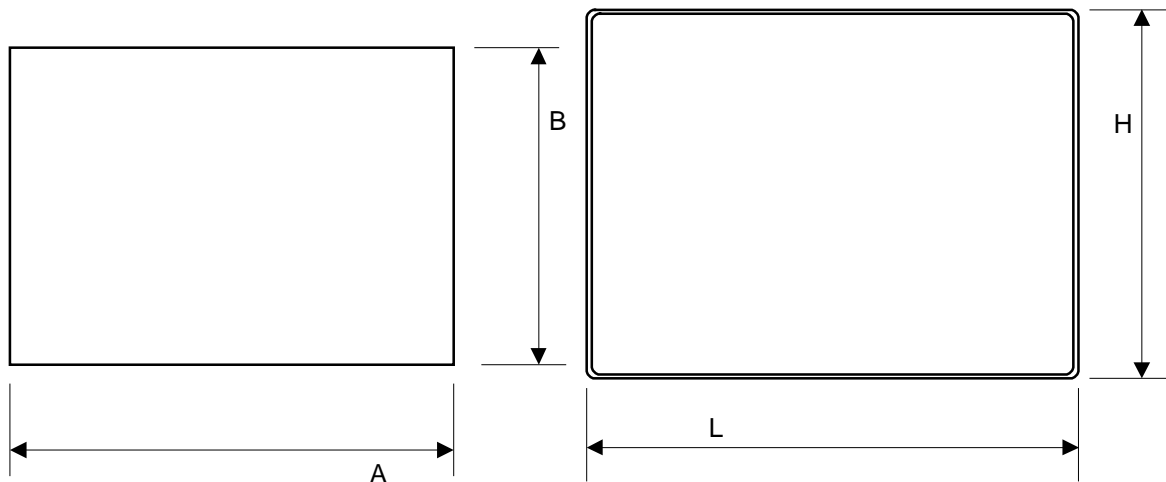


Figure 1 – Cutout and front view

Ordering Information

eTOP11-0050
PROT-03

5.6" 1/4 VGA STN color panel with touchscreen
Disposable protection foil for 5.6" eTOP touch panels (10 pieces)

Tn235

Ver. 1.00

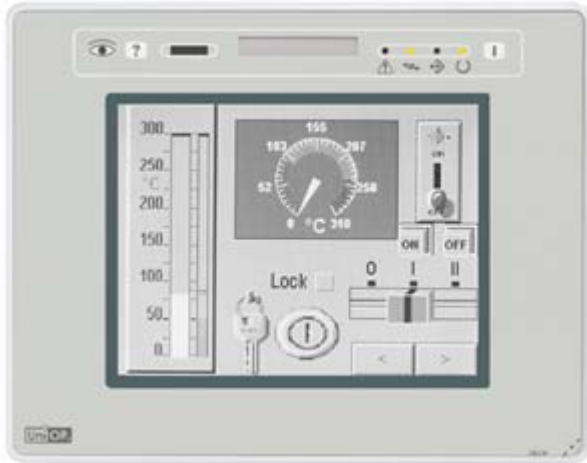
Copyright © 2006 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP12

The eTOP12 are state-of-the-art HMI device with touchscreen interface and a brilliant 5.6" monochrome graphic display. The compact size and the 1/4 VGA resolution make them an attractive solution where space is a premium without compromising performance.



- 5.6" monochrome display
- 1/4 VGA (320x240 pixel) resolution
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- 32 MB user memory
- Compatible with local I/O

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionalities of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display	
Type	Monochrome
Resolution	1/4 VGA, 320x240 pixel
Active display area	121x91 mm (5.6" diagonal)
Colors	Monochrome
Backlight	CCFL, 25K h ^(note 1)
Brightness	200 cd/m ² typ.
Dimming	No
Contrast regulation	Software
Memory	
User memory	32 MB Flash Card
User memory expansion	-
Front panel	
Touch screen	Analog resistive
Function keys	1
System keys	-
User LED's	1
System LED's	4
Interfaces	
PC/Printer port	Yes
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop
Aux port (fieldbus and Ethernet)	Yes, with optional modules
DX port (video input)	No
Serial programming speed	9600 – 38400 bps
Functionality	
Vector graphics	No
Dual driver capability	Yes
Video input	No
Data acquisition and trends	Yes

Recipe memory	32 KB
UniNet network	Client/Server
Alarms	1024
Event list	1024
Password	Yes
Hardware RTC	Yes, battery backed
Screen saver	Yes
Buzzer	Yes, audible feedback for touch screen
Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
Ratings	
Power supply voltage	24 V DC (18 to 30 V DC)
Current consumption	Max 0.6 A at 24 VDC
Fuse	Automatic
Weight	Approx 1.4 Kg
Environmental Conditions	
Operating temperature	0 to 45 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 – 85 % RH non-condensing
Protection class	IP65 (front panel)
Dimensions	
Faceplate LxH	187x147 mm (7.36x5.79")
Cutout AxB	176x136 mm (6.93x5.35 ")
Mounting depth (type 0050)	91 mm (3.58")

Note 1: the lamp lifetime is the typical value for continuous operation at 25°C.

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference	EN 61000-6-4, 2001
Noise immunity	EN 61000-6-2, 2001

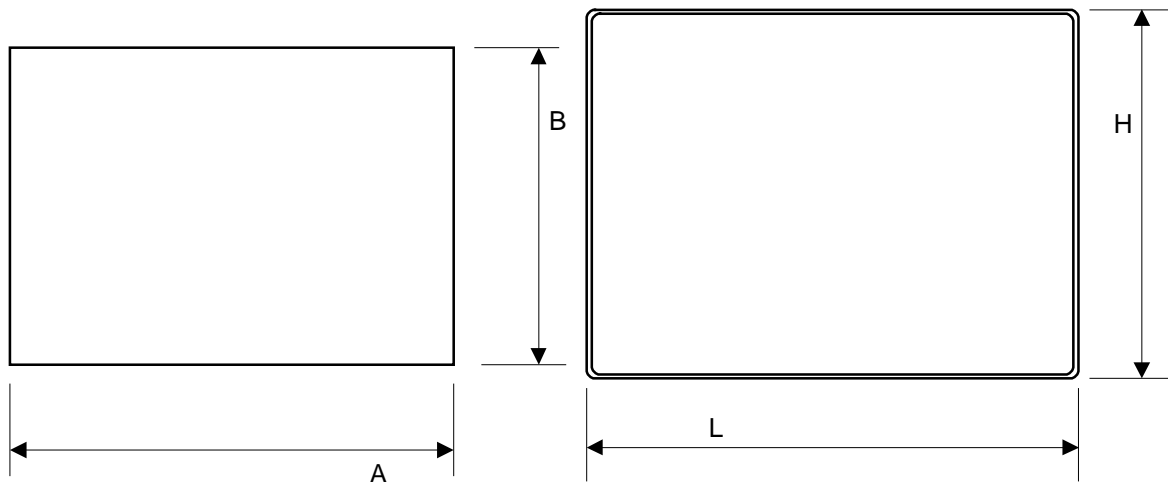


Figure 1 – Cutout and front view

Ordering Information

eTOP12-0050
PROT-03

5.6" 1/4 VGA Monochrome panel with touchscreen
Disposable protection foil for 5.6" eTOP touch panels (10 pieces)

Tn236

Ver. 1.00

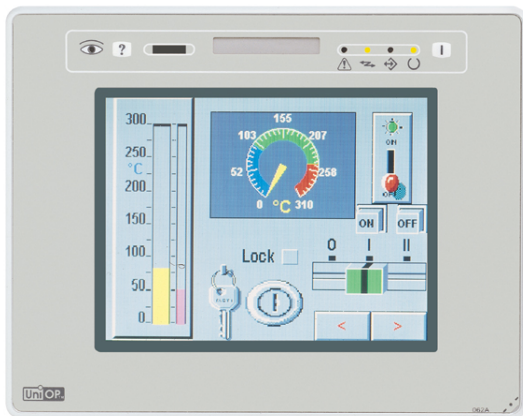
Copyright © 2002, 2006 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP19B

The eTOP19B is a state-of-the-art HMI with touchscreen interface and a 5.6" Enhanced TFT color display specifically designed for use under extreme illumination conditions. The enhancement technologies implemented in the display make this panel readable when normal TFT displays would not be usable. Support for 64K colors in the brilliant TFT display will increase the realism of the images. The wide operating temperature range extends even further the applicability of this product. The characteristics of touchscreen and display make this unit the ideal choice for high-end HMI applications in critical environments.



- 5.6" enhanced TFT color display
- 1/4 VGA (640x480 pixel) resolution
- 64K colors
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- Compatible with video input module
- 32 MB internal user memory
- Extended operating temperature range

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionalities of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Vector graphic capabilities including the support of multiple layers and object transparency.
- Video input option.
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display			
Type	TFT	Recipe memory	32 KB
Resolution	1/4 VGA, 320x240 pixel	UniNet network	Client/Server
Active display area	121x91 mm (5.6" diagonal)	Alarms	1024
Colors	64K	Event list	1024
Backlight	CCFL, 25000 h ^(note 1)	Password	Yes
Brightness	500 cd/m ² typ.	Hardware RTC	Yes, battery backed
Dimming	Yes	Screen saver	Yes
Memory		Buzzer	Yes, audible feedback for touch screen
User memory	32 MB internal Flash	Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
User memory expansion	Optional removable 32 MB SSFDC memory card		
Front panel			
Touch screen	Analog resistive	Ratings	
Function keys	1	Power supply voltage	24 V DC (18 to 30 V DC)
System keys	-	Current consumption	Max 0.6 A at 24 VDC
User LED's	1	Fuse	Automatic
System LED's	4	Weight	Approx 1.4 Kg
Interfaces		Environmental Conditions	
PC/Printer port	Yes	Operating temperature	-10 to 55 °C
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop	Storage temperature	-20 to +70 °C
Aux port (fieldbus and Ethernet)	Yes, with optional modules	Operating and storage humidity	5 – 85 % RH non-condensing
DX port (video input)	Yes	Protection class	IP65 (front panel)
Serial programming speed	9600 – 38400 bps	Dimensions	
Functionality		Faceplate LxH	187x147 mm (7.36x5.79")
Vector graphics	Yes	Cutout AxB	176x136 mm (6.93x5.35 ")
Dual driver capability	Yes	Mounting depth (type 0050)	91 mm (3.58")
Video input	Yes	Max panel thickness	5 mm (0.2")
Data acquisition and trends	Yes		

Note 1: the lamp lifetime is the typical value for continuous operation at 25°C.

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference	EN 61000-6-4, 2001
Noise immunity	EN 61000-6-2, 2001

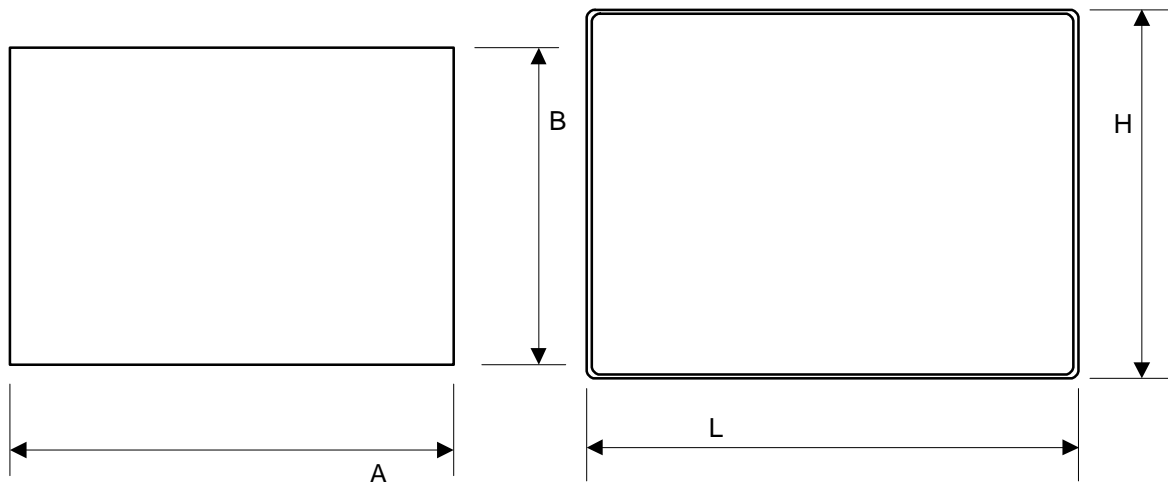


Figure 1 – Cutout and front view

Ordering Information

eTOP19B-0050

5.6" 1/4 VGA enhanced TFT color panel with touchscreen

Tn204

Ver. 1.00

Copyright © 2004 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP20B

The eTOP20B is a state-of-the-art HMI device with touchscreen interface and 7.5" TFT color graphic display. Support for 64K colors in the brilliant TFT display improves the realism of the images. The compact size and the VGA resolution make them an attractive solution where space is a premium without compromising performance.



- 7.5" TFT color display
- VGA (640x480 pixel) resolution
- 64K colors
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- Compatible with video input module
- 32 MB internal user memory

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionalities of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Vector graphic capabilities including the support of multiple layers and object transparency.
- Video input option
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display		Recipe memory	
Type	TFT	UniNet network	32 KB
Resolution	VGA, 640x480 pixel	Alarms	Client/Server
Active display area	154x116 mm (7.5" diagonal)	Event list	1024
Colors	64K	Password	1024
Backlight	CCFL, 50000 h ^(note 1)	Hardware RTC	Yes
Brightness	330 cd/m ² typ.	Screen saver	Yes, battery backed
Dimming	Yes	Buzzer	Yes
Memory		Battery	Yes, audible feedback for touch screen
User memory	32 MB internal Flash		3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
User memory expansion	Optional removable 32 MB SSFDC memory card	Ratings	
Front panel		Power supply voltage	18 - 30 VDC
Touch screen	Analog resistive	Current consumption	Max 0.7 A at 24 VDC
Function keys	1	Fuse	Automatic
System keys	-	Weight	Approx 1.6 Kg
User LED's	1	Environmental Conditions	
System LED's	4	Operating temperature	0 to 45 °C
Interfaces		Storage temperature	-20 to +70 °C
PC/Printer port	Yes	Operating and storage humidity	5 – 85 % RH non-condensing
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop	Protection class	IP65 (front panel)
Aux port (fieldbus and Ethernet)	Yes, with optional modules	Dimensions	
DX port (video input)	Yes	Faceplate LxH	232x187 mm (9.14x7.63")
Serial programming speed	9600 – 38400 bps	Cutout AxB	221x176 mm (8.70x6.93")
Functionality		Mounting depth (type 0045)	71 mm (2.80")
Vector graphics	Yes		
Dual driver capability	Yes		
Video input	Yes		
Data acquisition and trends	Yes		

Note 1: the lamp lifetime is the typical value for continuous operation at 25°C.

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference	EN 61000-6-4, 2001
Noise immunity	EN 61000-6-2, 2001

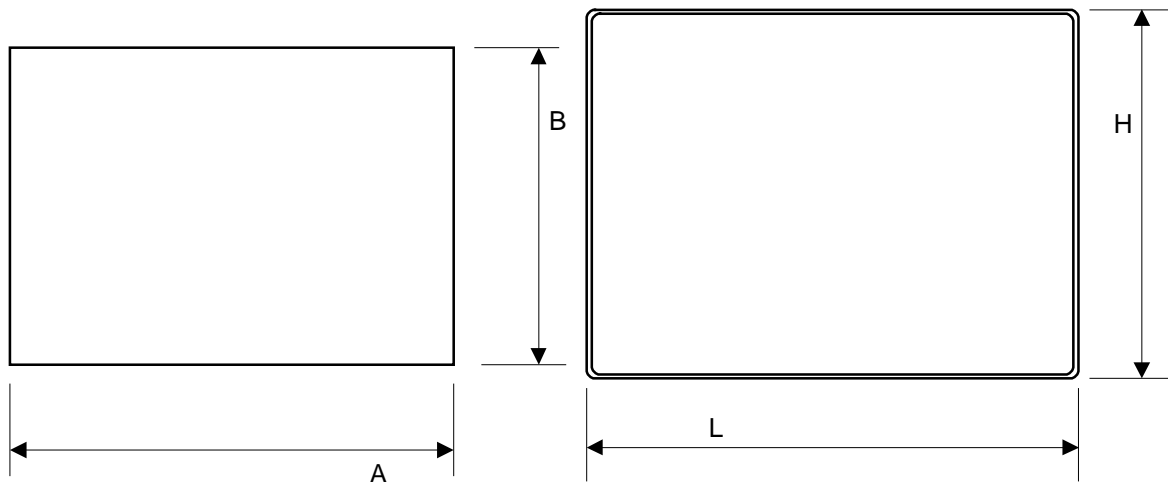


Figure 1 – Cutout and front view

Ordering Information

eTOP20B-0045
PROT-09

7.5" VGA TFT color panel with touchscreen
Disposable protection foil for 7.5" eTOP touch panels (10 pieces)

Tn203

Ver. 1.01

Copyright © 2006 Sitek S.p.A. – Verona, Italy

Subject to change without notice

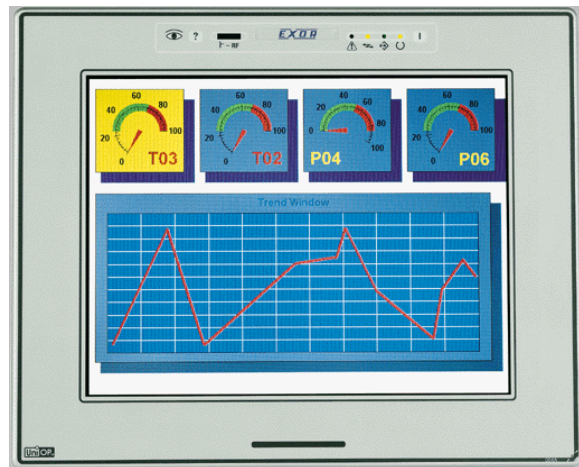
The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP30, eTOP32

The eTOP30, and 32 are state-of-the-art HMI devices with a touch screen interface and a 10.4" graphic display (9.6" for monochrome version). The novel aluminum bezel offers a rugged and convenient flat design and an appealing look.

Highlights

- 10.4" diagonal graphic color display
- 9.6" diagonal graphic monochrome LCD display
- Available in TFT color, and monochrome
- VGA (640x480 pixels) resolution
- Shows up to 30 rows, 80 characters of information
- Resistive touch screen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- Compatible with HMIcontrol and local I/O subsystems
- Large memory size (8 MB Flash) on removable media
- IP65 front panel protection
- Programmable with UniOP Designer version 5.08



The eTOP HMI panels are part of the eTOUCH family of touch screen products. All of the eTOUCH products support the rich common functionality of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, DeviceNet, Interbus, CANopen) and Ethernet
- Display data in numerical, text and bargraph format
- Dynamic graphic objects
- Data acquisition and trend presentation
- Analog gauges
- Recipe data storage
- Keyboard/Touch macro editor
- Alarms and historical alarm list
- Eight level password protection
- Report printing to serial printer

Technical data

The product is available in two versions that differ only by display type.

	Display	Colors	Backlight	Lifetime
eTOP30	TFT color LCD	256	CCFL	
eTOP32	Monochrome LCD	-	CCFL	

Display	
Graphic resolution	640x480 pixels
Active display area	218x159 mm (10.4" diagonal) / 196x147.6 mm (9.6" diagonal)
Rows/columns	30x80
Character height	-
Scalable fonts	Yes
User definable characters	256
Contrast regulation	Software with temperature compensation (only eTOP32)
Memory	
User memory	8 MB SSFDC memory card
User memory expansion	-
Front panel	
Function keys	-
System keys	-
Touch screen	Resistive (guaranteed 3 M operations)
User LED's	-
System LED's	5
Connections	
PC/Printer port	Yes
PLC port	RS-232, RS-485, RS-422, 20 mA CL
Aux port (fieldbus and Ethernet connection)	Yes, with optional modules
External keyboard port	No
Programming speed	9600 - 38400 bps
Functionality	
Page size	-
Number of variables per page	Unlimited
Recipe memory	32 KB
UniNet network	Client/Server
Alarms	1024
Event list	1024
Alarm info page	Yes
Password	Yes
Battery	Yes
Hardware RTC	Yes, battery backed
Screen saver	Yes
Buzzer	Yes, audible feedback for touch screen
Power supply voltage	18 - 30 VDC

Sold by AA Electric 1-800-237-8274 Lakeland, FL • Lawrenceville, GA • Greensboro, NC • East Rutherford, NJ www.AAelectric.com

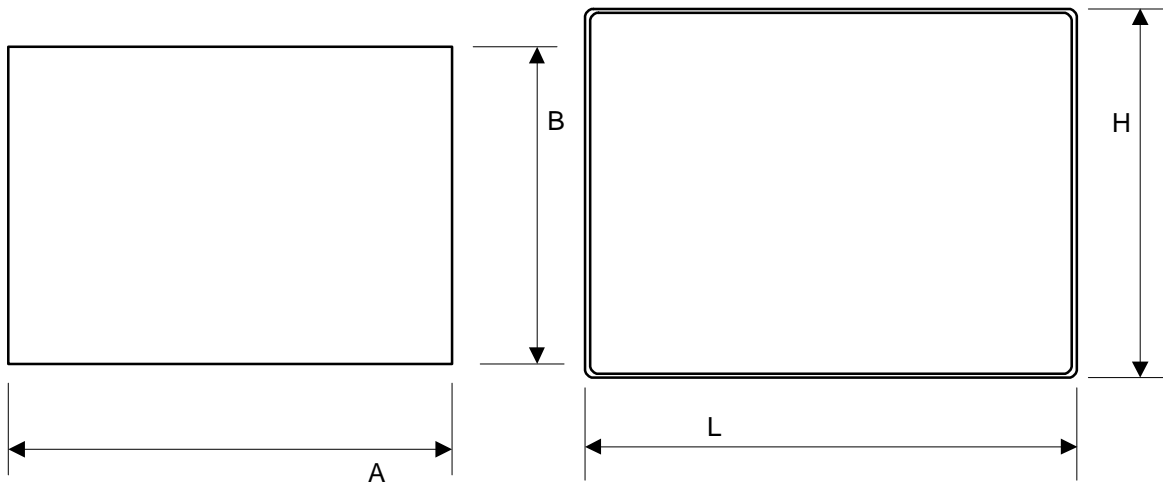
Max power consumption	~ 700 mA at 24 VDC
Fuse	Automatic
Weight	~ 2.25 Kg
Operating temperature	0 to 45 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 - 85 % RH non-condensing
Protection class	IP65 (front panel)

The product is designed for installation in an industrial environment in compliance with the regulations:

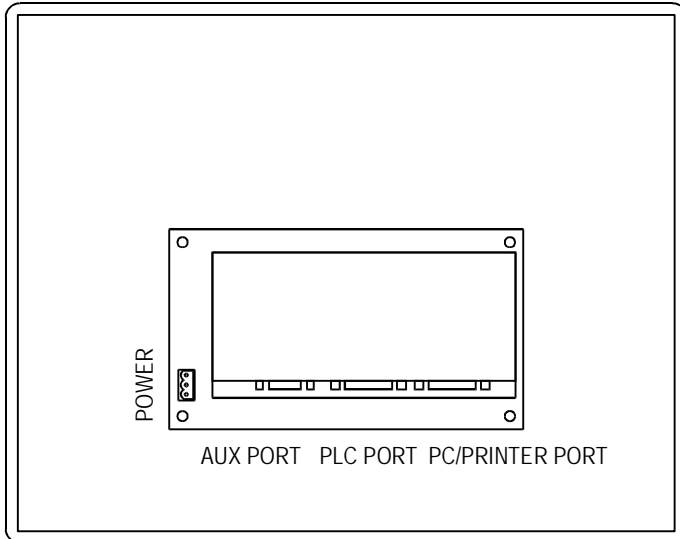
Emitted interference EN 61000-6-4, 2001
 Noise immunity EN 61000-6-2, 2001

Front dimensions and cutout

Faceplate LxH	287x232 mm	11.30x9.14"
Cutout AxH	276x221 mm	10.87x8.70"
Cutout depth (version -0050)	91 mm	3.58"
Max panel thickness	5 mm	0.2"



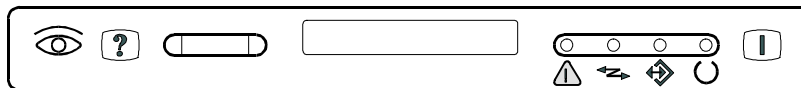
Connections



Indicators on the front panel

There are several dedicated LED indicators on the front panel of the unit. Functions are described in the table below.



A customizable legend strip is included.



Elements not listed in the table are reserved for future use.

LED	Color	Status	Meaning
👁️	red	OFF	No hardware problem detected
		BLINK	Battery low
		ON	Hardware fault
👁️	green	OFF	No touch cell active
		ON	While any touch cell is active (visual feedback)
🔄	green	OFF	Hardware fault
		ON	Unit in operation
🔄	green	BLINK	Communication error
		ON	Communication OK
⚠️	red	OFF	No alarms
		BLINK	Alarm requires acknowledgment
		ON	Alarm active
↔️	green		May be user controlled as LED number 65 using the Macro Editor. Turns ON when recipe/event backup is being performed.

The service area at the top of the product includes also two buttons.

Button	Description
	User programmable with the Keyboard Macro Editor. Not available in RDA. Designer 5.08 SP7 or higher is required.
	Reserved for future use

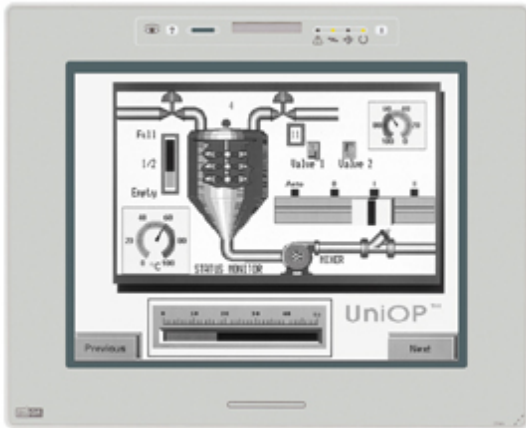
Ordering Information

eTOP30-0050
eTOP32-0050

10.4" VGA TFT color panel with touchscreen
9.6" VGA monochrome panel with touchscreen

UniOP eTOP32B

The eTOP32B is a cost-effective HMI device with touchscreen interface and 9.6" monochrome LCD display. The VGA resolution makes it the ideal choice for HMI applications demanding a large display on a limited budget.



- 9.6" monochrome display
- VGA (640x480 pixel) resolution
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- 32 MB internal user memory

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionalities of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Vector graphic capabilities including the support of multiple layers and object transparency.
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display	
Type	Monochrome LCD
Resolution	VGA, 640x480 pixel
Active display area	196x147 mm (9.6" diagonal)
Colors	-
Backlight	CCFL
Brightness	100 cd/m ² typ.
Dimming	-
Memory	
User memory	32 MB internal Flash
User memory expansion	Optional removable 32 MB SSFDC memory card
Front panel	
Touch screen	Analog resistive
Function keys	1
System keys	-
User LED's	1
System LED's	4
Interfaces	
PC/Printer port	Yes
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop
Aux port (fieldbus and Ethernet)	Yes, with optional modules
DX port (video input)	No
Serial programming speed	9600 – 38400 bps
Functionality	
Vector graphics	Yes
Dual driver capability	Yes
Video input	No
Data acquisition and trends	Yes

Recipe memory	32 KB
UniNet network	Client/Server
Alarms	1024
Event list	1024
Password	Yes
Hardware RTC	Yes, battery backed
Screen saver	Yes
Buzzer	Yes, audible feedback for touch screen
Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
Ratings	
Power supply voltage	24 V DC (18 to 30 V DC)
Current consumption	Max 0.7 A at 24 VDC
Fuse	Automatic
Weight	Approx 2.3 Kg
Environmental Conditions	
Operating temperature	0 to 45 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 – 85 % RH non-condensing
Protection class	IP65 (front panel)
Dimensions	
Faceplate LxH	287x232 mm (11.30x9.14")
Cutout AxB	276x221 mm (10.87x8.70")
Mounting depth (type 0050)	91 mm (3.58")

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference EN 61000-6-4, 2001
 Noise immunity EN 61000-6-2, 2001

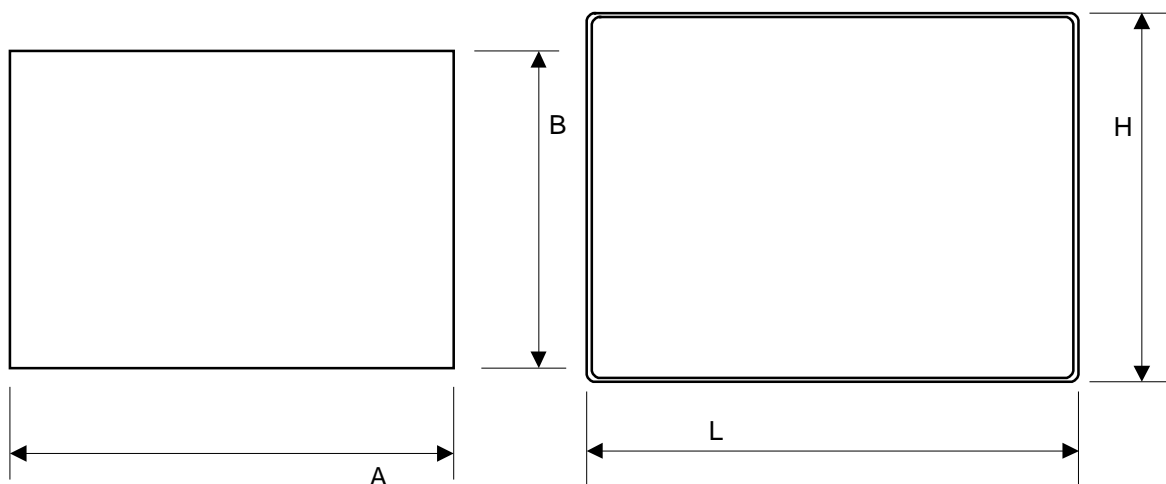


Figure 1 – Cutout and front view

Ordering Information

eTOP32B-0050
PROT-04

9.6" VGA monochrome panel with touchscreen
Disposable protection foil for 10.4" eTOP touch panels (10 pieces)

Tn217

Ver. 1.01

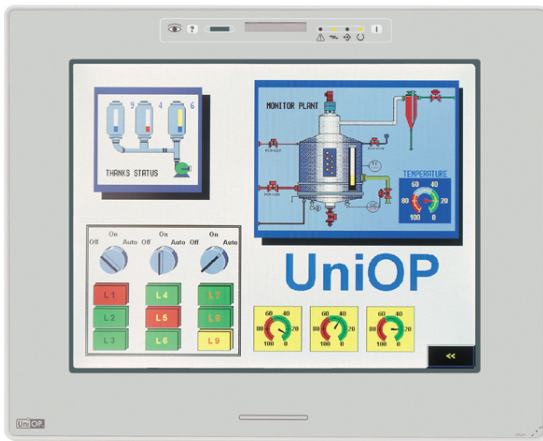
Copyright © 2004, 2006 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP33B

The eTOP33B is a state-of-the-art HMI device with touchscreen interface and 10.4" TFT color graphic display. Support for 64K colors in the brilliant TFT display will increase the realism of the images. The VGA resolution makes it the ideal choice for high-end HMI applications.



- 10.4" TFT color display
- VGA (640x480 pixel) resolution
- 64K colors
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- Compatible with video input module
- 32 MB internal user memory

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionalities of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Vector graphic capabilities including the support of multiple layers and object transparency.
- Video input option.
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display			
Type	TFT	Recipe memory	32 KB
Resolution	VGA, 640x480 pixel	UniNet network	Client/Server
Active display area	218x159 mm (10.4" diagonal)	Alarms	1024
Colors	64K	Event list	1024
Backlight	CCFL, 50000 h ^(note 1)	Password	Yes
Brightness	450 cd/m ² typ.	Hardware RTC	Yes, battery backed
Dimming	Yes	Screen saver	Yes
Memory		Buzzer	Yes, audible feedback for touch screen
User memory	32 MB internal Flash	Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
User memory expansion	Optional removable 32 MB SSFDC memory card		
Front panel			
Touch screen	Analog resistive	Ratings	
Function keys	1	Power supply voltage	24 V DC (18 to 30 V DC)
System keys	-	Current consumption	Max 0.7 A at 24 VDC
User LED's	1	Fuse	Automatic
System LED's	4	Weight	Approx 2.3 Kg
Interfaces		Environmental Conditions	
PC/Printer port	Yes	Operating temperature	0 to 45 °C
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop	Storage temperature	-20 to +70 °C
Aux port (fieldbus and Ethernet)	Yes, with optional modules	Operating and storage humidity	5 – 85 % RH non-condensing
DX port (video input)	Yes	Protection class	IP65 (front panel)
Serial programming speed	9600 – 38400 bps	Dimensions	
Functionality		Faceplate LxH	287x232 mm (11.30x9.14")
Vector graphics	Yes	Cutout AxB	276x221 mm (10.87x8.70")
Dual driver capability	Yes	Mounting depth (type 0050)	91 mm (3.58")
Video input	Yes	Max panel thickness	5 mm (0.2")
Data acquisition and trends	Yes		

Note 1: the lamp lifetime is the typical value for continuous operation at 25°C.

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference	EN 61000-6-4, 2001
Noise immunity	EN 61000-6-2, 2001

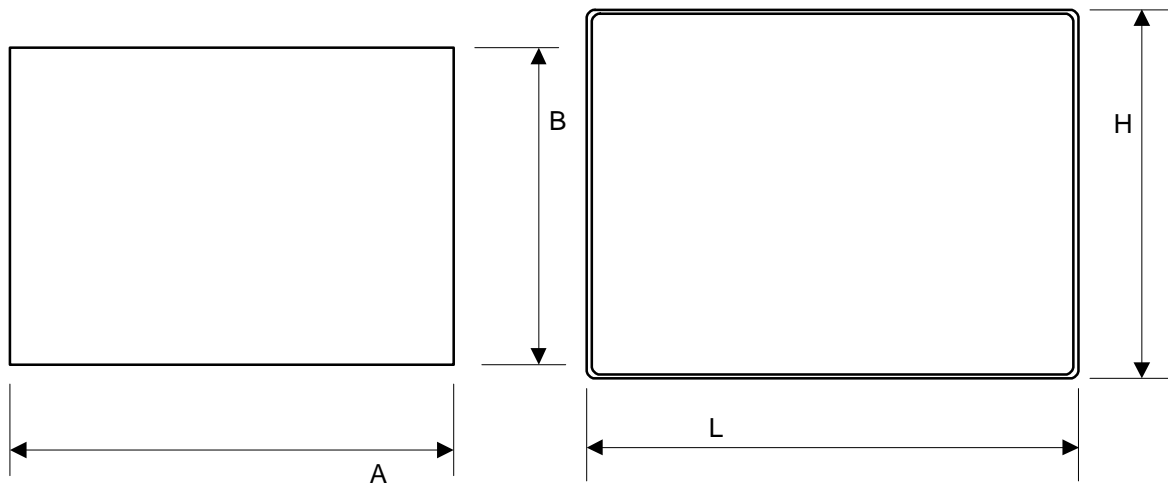


Figure 1 – Cutout and front view

Ordering Information

eTOP33B-0050

10.4" VGA TFT color panel with touchscreen

Tn216

Ver. 1.00

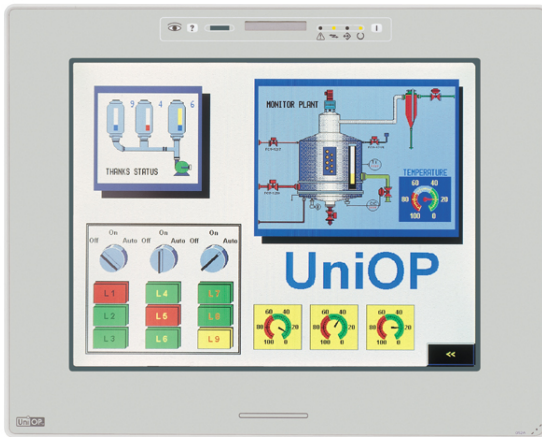
Copyright © 2004 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP38B

The eTOP38B is a state-of-the-art HMI device with high-brightness sunlight-readable 10.4" TFT color display with SVGA (800x600) resolution and resistive touchscreen. This product has been specifically designed for use with extreme illumination conditions. Support for 64K colors with this high resolution brilliant TFT display will increase the realism of the images. These characteristics make this unit the ideal choice for high-end HMI applications.



- 10.4" TFT color display
- High brightness
- SVGA (800x600 pixel) resolution
- 64K colors
- Sunlight-readable
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- Compatible with video input module
- 32 MB internal user memory

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionalities of the UniOP operator panels.

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Vector graphic capabilities including the support of multiple layers and object transparency.
- Video input option
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display			
Type	TFT	Recipe memory	32 KB
Resolution	SVGA, 800x600 pixel	UniNet network	Client/Server
Active display area	218x159 mm (10.4" diagonal)	Alarms	1024
Colors	64K	Event list	1024
Backlight	CCFL, 50000 h ^(note 1)	Password	Yes
Brightness	700 cd/m ² typ.	Hardware RTC	Yes, battery backed
Dimming	Yes	Screen saver	Yes
Memory		Buzzer	Yes, audible feedback for touch screen
User memory	32 MB internal Flash	Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
User memory expansion	Optional removable 32 MB SSFDC memory card		
Front panel			
Touch screen	Resistive	Ratings	
Function keys	1	Power supply voltage	24 V DC (18 to 30 V DC)
System keys	-	Current consumption	Max 1.7 A at 24 V DC
User LED's	1	Fuse	Automatic
System LED's	4	Weight	Approx 2.5 Kg
Interfaces		Environmental Conditions	
PC/Printer port	Yes	Operating temperature	0 to 45 °C
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop	Storage temperature	-20 to +70 °C
Aux port (fieldbus and Ethernet)	Yes, with optional modules	Operating and storage humidity	5 – 85 % RH non-condensing
DX port (video input)	Yes	Protection class	IP65 (front panel)
Serial programming speed	9600 – 38400 bps	Dimensions	
Functionality		Faceplate LxH	287x232 mm (11.30x9.14")
Vector graphics	Yes	Cutout AxB	276x221 mm (10.87x8.70")
Dual driver capability	Yes	Mounting depth (type 0050)	108 mm (4.25")
Video input	Yes		
Data acquisition and trends	Yes		

Note 1: the lamp lifetime is the typical value for continuous operation at 25°C.

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference	EN 61000-6-4, 2001
Noise immunity	EN 61000-6-2, 2001

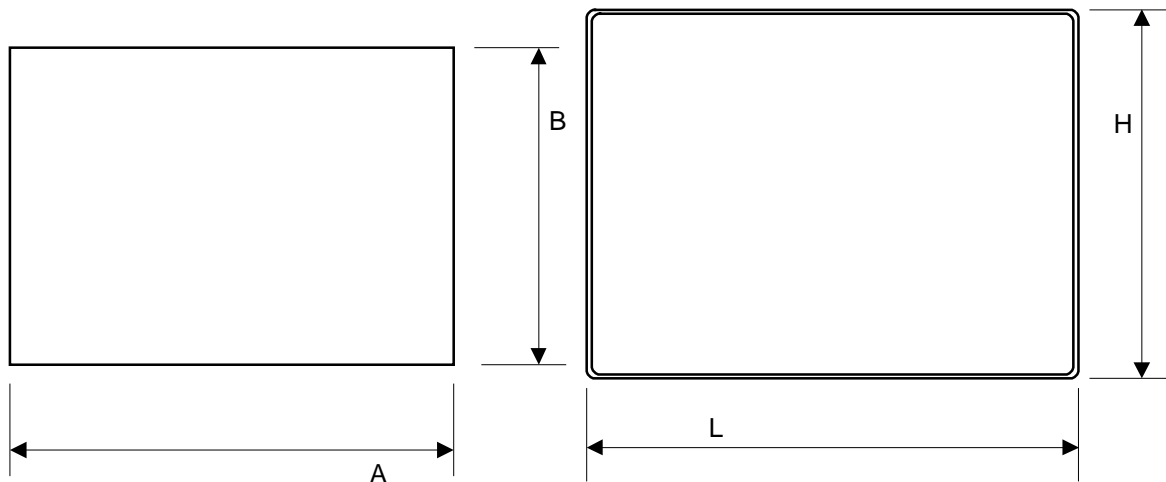


Figure 1 – Cutout and front view

Ordering Information

eTOP38B-0050

10.4" SVGA TFT color panel with resistive touchscreen. Sunlight-readable.

Tn229

Ver. 1.00

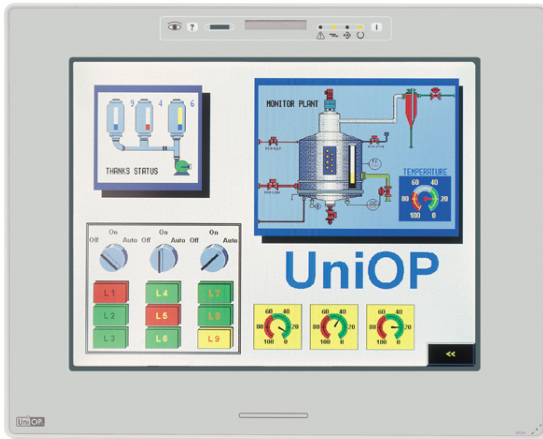
Copyright © 2006 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP40B

The eTOP40B is a state-of-the-art HMI device with touchscreen interface and 12.1" TFT color graphic display. Support for 64K colors in the brilliant TFT display will increase the realism of the images. The SVGA resolution makes it the ideal choice for high-end HMI applications.



- 12.1" TFT color display
- SVGA (800x600 pixel) resolution
- 64K colors
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- Compatible with video input module
- 32 MB internal user memory

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionalities of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Vector graphic capabilities including the support of multiple layers and object transparency.
- Video input option
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display		Recipe memory	
Type	TFT	UniNet network	32 KB
Resolution	SVGA, 800x600 pixel	Alarms	Client/Server
Active display area	246x184 mm (12.1" diagonal)	Event list	1024
Colors	64K	Password	1024
Backlight	CCFL, 50000 h ^(note 1)	Hardware RTC	Yes
Brightness	370 cd/m ² typ.	Screen saver	Yes, battery backed
Dimming	Yes	Buzzer	Yes
Memory		Battery	Yes, audible feedback for touch screen
User memory	32 MB internal Flash		3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
User memory expansion	Optional removable 32 MB SSFDC memory card	Ratings	
Front panel		Power supply voltage	18 - 30 VDC
Touch screen	Analog resistive	Current consumption	Max 0.8 A at 24 VDC
Function keys	1	Fuse	Automatic
System keys	-	Weight	Approx 2.8 Kg
User LED's	1	Environmental Conditions	
System LED's	4	Operating temperature	0 to 45 °C
Interfaces		Storage temperature	-20 to +70 °C
PC/Printer port	Yes	Operating and storage humidity	5 – 85 % RH non-condensing
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop	Protection class	IP65 (front panel)
Aux port (fieldbus and Ethernet)	Yes, with optional modules	Dimensions	
DX port (video input)	Yes	Faceplate LxH	337x267 mm (13.26x10.51")
Serial programming speed	9600 – 38400 bps	Cutout AxB	326x256 mm (12.83x10.08")
Functionality		Mounting depth (type 0050)	91 mm (3.58")
Vector graphics	Yes	Max panel thickness	5 mm (0.2")
Dual driver capability	Yes		
Video input	Yes		
Data acquisition and trends	Yes		

Note 1: the lamp lifetime is the typical value for continuous operation at 25°C.

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference	EN 61000-6-4, 2001
Noise immunity	EN 61000-6-2, 2001

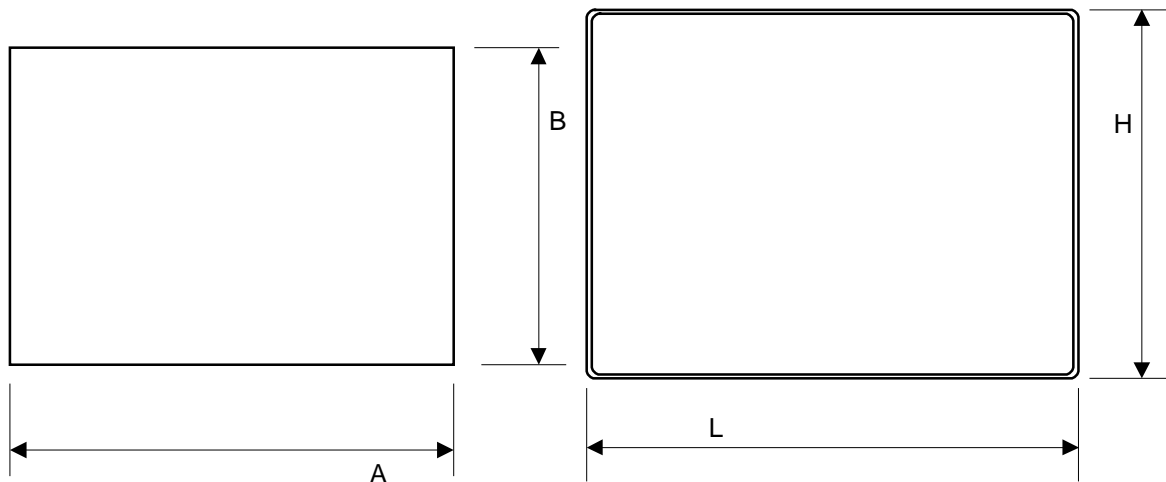


Figure 1 – Cutout and front view

Ordering Information

eTOP40B-0050

12.1" SVGA TFT color panel with touchscreen

Tn219

Ver. 1.00

Copyright © 2004 Sitek S.p.A. – Verona, Italy

Subject to change without notice

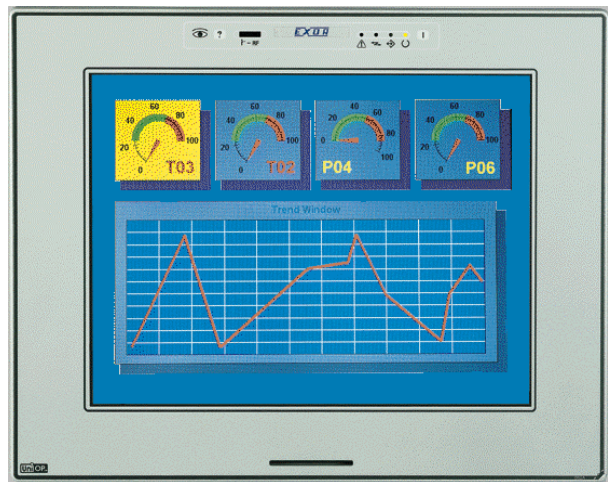
The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP50

The eTOP50 is a state-of-the-art HMI device with a touch screen interface and a 15" graphic display. The novel aluminum bezel offers a rugged and convenient flat design and an appealing look.

Highlights

- 15" diagonal graphic display
- TFT Color display
- XVGA (1024x768 pixels) resolution
- Shows up to 48 rows, 128 characters of information
- Resistive touch screen
- Connection to industrial bus systems
- Connection to Ethernet
- Compatible with HMIcontrol and local I/O subsystems
- Large memory size (8 MB Flash)
- IP65 front panel protection
- Programmable with UniOP Designer version 5.08



The eTOP HMI panels are part of the eTOUCH family of touch screen products. All of the eTOUCH products support the rich common functionality of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, DeviceNet, Interbus, CANopen) and Ethernet
- Display data in numerical, text and bargraph format
- Dynamic graphic objects
- Data acquisition and trend presentation
- Analog gauges
- Recipe data storage
- Keyboard/Touch macro editor
- Alarms and historical alarm list
- Eight level password protection
- Report printing to serial printer

Technical data

eTOP50	Display TFT color LCD	Colors 256	Backlight CCFL	Lifetime 50000h
---------------	---------------------------------	----------------------	--------------------------	---------------------------

Display				
Graphic resolution	1024x768 pixels			
Active display area	304.1x228.1 mm (15" diagonal)			
Rows/columns	48x128			
Character height	-			
Scalable fonts	Yes			
User definable characters	256			
Contrast regulation	-			
Memory				
User memory	8 MB SSFDC memory card			
User memory expansion	-			
Front panel				
Function keys	-			
System keys	-			
Touch screen	Resistive (guaranteed 3 M operations)			
User LED's	-			
System LED's	5			
Connections				
PC/Printer port	Yes			
PLC port	RS-232, RS-485, RS-422, 20 mA CL			
Aux port (fieldbus and Ethernet connection)	Yes, with optional modules			
External keyboard port	No			
Programming speed	9600 - 38400 bps			
Functionality				
Page size	-			
Number of variables per page	Unlimited			
Recipe memory	32 KB			
UniNet network	Client/Server			
Alarms	1024			
Event list	1024			
Alarm info page	Yes			
Password	Yes			
Battery	Yes			
Hardware RTC	Yes, battery backed			
Screen saver	Yes			
Buzzer	Yes, audible feedback for touch screen			
Power supply voltage	18 – 30 VDC			
Max power consumption	~ 1200 mA at 24 VDC			
Fuse	Automatic			

Sold by AA Electric 1-800-237-8274 Lakeland, FL • Lawrenceville, GA • Greensboro, NC • East Rutherford, NJ www.AAelectric.com

Weight	~ 3.85 Kg
Operating temperature	0 to 45 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 – 85 % RH non-condensing
Protection class	IP65 (front panel)

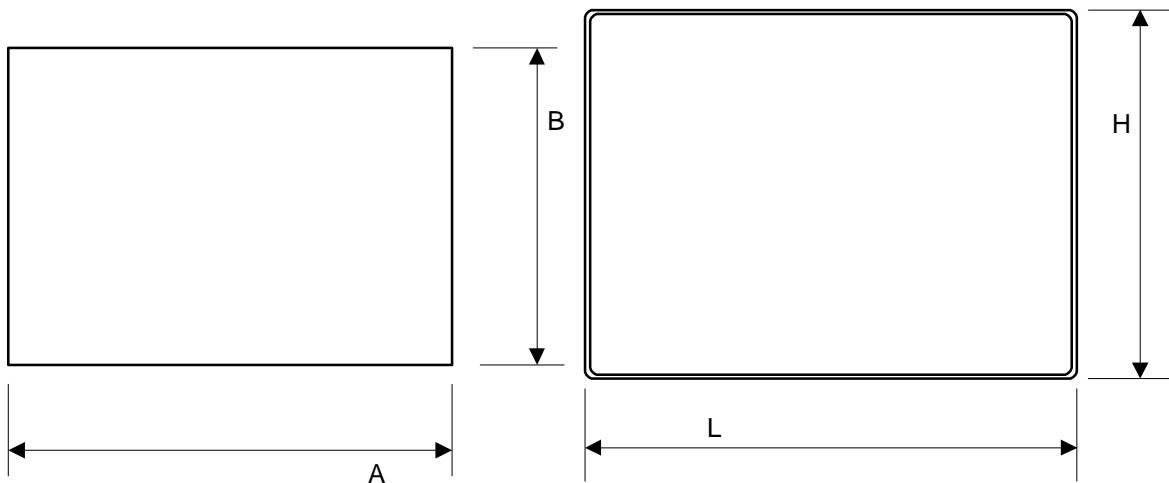
The product is designed for installation in an industrial environment in compliance with the regulations:

Emitted interference EN 61000-6-4, 2001

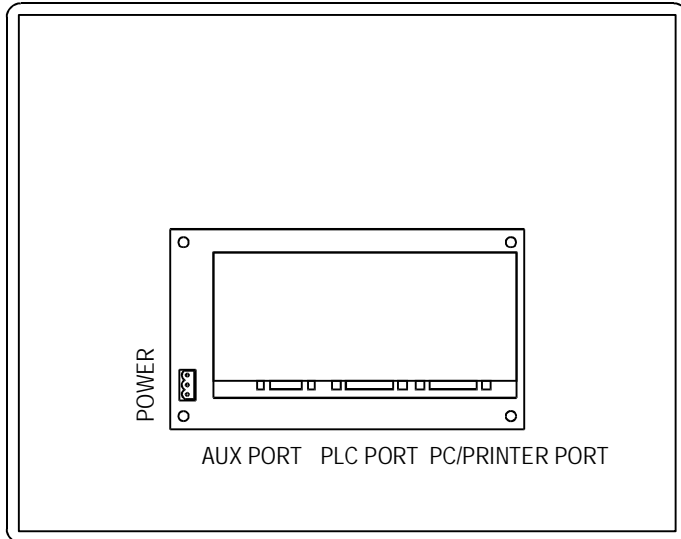
Noise immunity EN 61000-6-2, 2001

Front dimensions and cutout

Faceplate LxH	392x307 mm	15.43x12.08"
Cutout AxH	381x296 mm	15.00x11.65"
Cutout depth (version -0050)	101 mm	3.98"
Max panel thickness	5 mm	0.2"



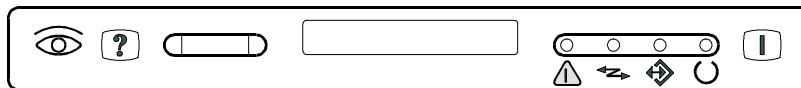
Connections



Indicators on the front panel

There are several dedicated LED indicators on the front panel of the unit. Functions are described in the table below.

A customizable legend strip is included.

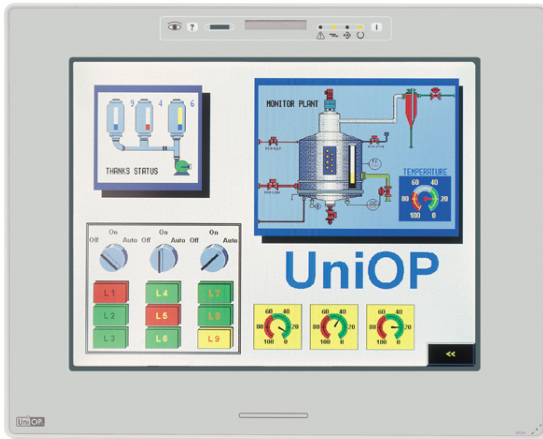


Elements not listed in the table are reserved for future use.

LED	Color	Status	Meaning
	red	OFF	No hardware problem detected
		BLINK	Battery low
		ON	Hardware fault
	green	OFF	No touch cell active
		ON	While any touch cell is active (visual feedback)
	green	OFF	Hardware fault
		ON	Unit in operation
	green	BLINK	Communication error
		ON	Communication OK
	red	OFF	No alarms
		BLINK	Alarm requires acknowledgment
		ON	Alarm active

UniOP eTOP50B

The eTOP50B is a state-of-the-art HMI device with touchscreen interface and 15" TFT color graphic display. Support for 64K colors in the brilliant TFT display will increase the realism of the images. The XGA resolution makes it the ideal choice for high-end HMI applications.



- 15" TFT color display
- XGA (1024x768 pixel) resolution
- 64K colors
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- Compatible with video input module
- 32 MB internal user memory

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionalities of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Vector graphic capabilities including the support of multiple layers and object transparency.
- Video input option
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display			
Type	TFT	Recipe memory	32 KB
Resolution	XGA, 1024x768 pixel	UniNet network	Client/Server
Active display area	304x228 mm (15" diagonal)	Alarms	1024
Colors	64K	Event list	1024
Backlight	CCFL, 50000 h ^(note 1)	Password	Yes
Brightness	250 cd/m ² typ.	Hardware RTC	Yes, battery backed
Dimming	Yes	Screen saver	Yes
Memory		Buzzer	Yes, audible feedback for touch screen
User memory	32 MB internal Flash	Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
User memory expansion	Optional removable 32 MB SSFDC memory card		
Front panel			
Touch screen	Analog resistive	Ratings	
Function keys	1	Power supply voltage	18 - 30 VDC
System keys	-	Current consumption	Max 1.2 A at 24 VDC
User LED's	1	Fuse	Automatic
System LED's	4	Weight	Approx 3.8 Kg
Interfaces		Environmental Conditions	
PC/Printer port	Yes	Operating temperature	0 to 45 °C
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop	Storage temperature	-20 to +70 °C
Aux port (fieldbus and Ethernet)	Yes, with optional modules	Operating and storage humidity	5 – 85 % RH non-condensing
DX port (video input)	Yes	Protection class	IP65 (front panel)
Serial programming speed	9600 – 38400 bps	Dimensions	
Functionality		Faceplate LxH	392x307 mm (15.43x12.08")
Vector graphics	Yes	Cutout AxB	381x296 mm (15.00x11.65 ")
Dual driver capability	Yes	Mounting depth (type 0050)	101 mm (3.98")
Video input	Yes	Max panel thickness	5 mm (0.2")
Data acquisition and trends	Yes		

Note 1: the lamp lifetime is the typical value for continuous operation at 25°C.

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference	EN 61000-6-4, 2001
Noise immunity	EN 61000-6-2, 2001

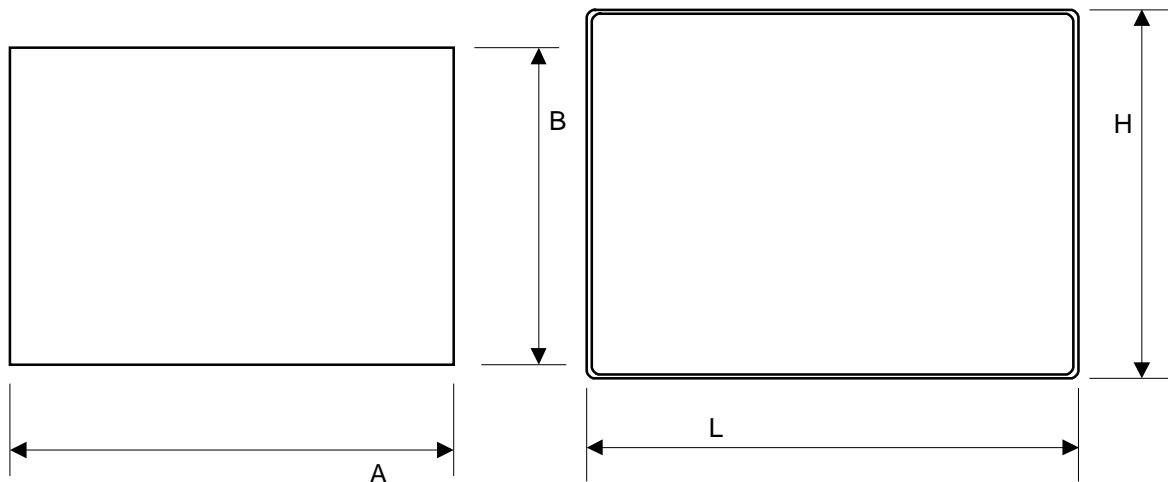


Figure 1 – Cutout and front view

Ordering Information

ETOP50B-0050

15" XGA TFT color panel with touchscreen

Tn220

Ver. 1.00

Copyright © 2004 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP eTOP59B

The eTOP59B is a state-of-the-art HMI device featuring a high-brightness sunlight-readable 15" TFT color display with XVGA (1024x768) resolution and resistive touchscreen. This product has been specifically designed for use under extreme illumination conditions. Support for 64K colors in the brilliant TFT display will increase the realism of the images. These characteristics make this unit the ideal choice for high-end HMI applications..



- 15" TFT color display
- High brightness
- XVGA (1024x768 pixel) resolution
- 64K colors
- Sunlight-readable
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- Compatible with video input module
- 32 MB internal user memory

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionalities of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Dual-driver communication capability
- Vector graphic capabilities including the support of multiple layers and object transparency.
- Video input option
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to a host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

Technical Data

Display		Recipe memory	
Type	TFT	UniNet network	32 KB
Resolution	XVGA, 1024x768 pixel	Alarms	Client/Server
Active display area	304x228 mm (15" diagonal)	Event list	1024
Colors	64K	Password	Yes
Backlight	CCFL, 50000 h ^(note 1)	Hardware RTC	Yes, battery backed
Brightness	650 cd/m ² typ.	Screen saver	Yes
Dimming	Yes	Buzzer	Yes, audible feedback for touch screen
Memory		Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
User memory	32 MB internal Flash	Ratings	
User memory expansion	Optional removable 32 MB SSFDC memory card	Power supply voltage	18 - 30 VDC
Front panel		Current consumption	Max 1.7 A at 24 VDC
Touch screen	Analog resistive	Fuse	Automatic
Function keys	1	Weight	Approx 4.2 Kg
System keys	-	Environmental Conditions	
User LED's	1	Operating temperature	0 to 45 °C
System LED's	4	Storage temperature	-20 to +70 °C
Interfaces		Operating and storage humidity	5 – 85 % RH non-condensing
PC/Printer port	Yes	Protection class	IP65 (front panel)
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop	Dimensions	
Aux port (fieldbus and Ethernet)	Yes, with optional modules	Faceplate LxH	392x307 mm (15.43x12.08")
DX port (video input)	Yes	Cutout AxB	381x296 mm (15.00x11.65 ")
Serial programming speed	9600 – 38400 bps	Mounting depth (type 0050)	101 mm (3.98")
Functionality			
Vector graphics	Yes		
Dual driver capability	Yes		
Video input	Yes		
Data acquisition and trends	Yes		

Note 1: the lamp lifetime is the typical value for continuous operation at 25°C.

The product is designed for installation in industrial environments in compliance with the regulations:

Emitted interference EN 61000-6-4, 2001
 Noise immunity EN 61000-6-2, 2001

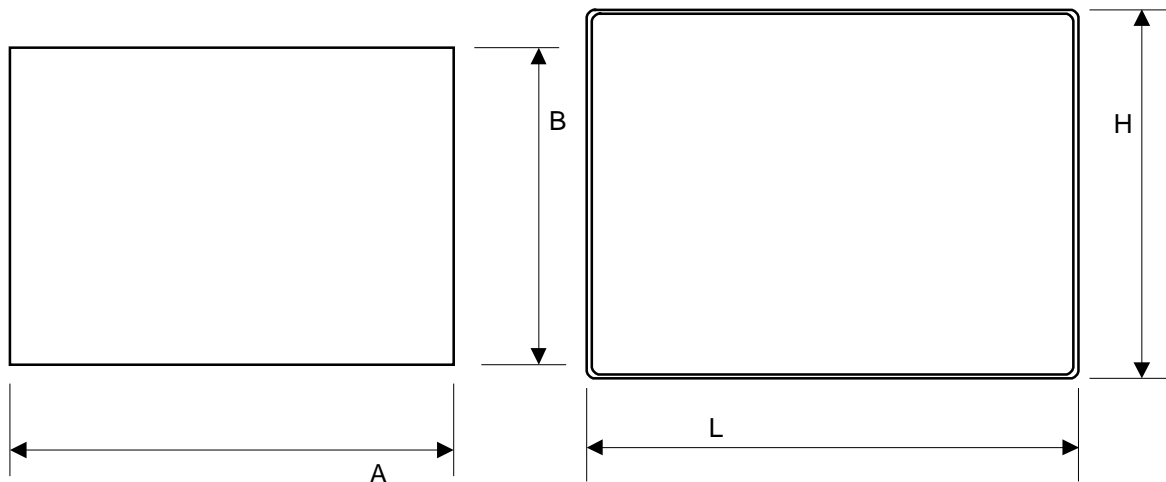


Figure 1 – Cutout and front view

Ordering Information

eTOP59B-0050

15" XVGA high-brightness TFT color panel with touchscreen

Tn230

Ver. 1.00

Copyright © 2006 Sitek S.p.A. – Verona, Italy

Subject to change without notice

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP MD02F-02 and MD02R-04

Compact HMI devices with 9 function keys, numerical keypad and 20 characters display.

Highlights

- Shows up to 2 or 4 rows, 20 characters of information
- Choice of Vacuum Fluorescent or Monochrome LCD
- 9 user programmable function keys with slide-in legends
- 10 user programmable LED indicators
- Multilanguage project capability
- Dual-driver communication
- Connection to industrial bus systems and Ethernet with optional modules
- IP65 front panel protection



The MD02F-02 and MD02R-04 HMI panels are compact low cost products yet extremely rich in functionality. The products support the rich common functionality of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer software
- Dual-driver communication capability,
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, DeviceNet, CANopen, Interbus) and Ethernet
- Display data in numerical, text and bargraph format
- Recipe data storage
- Keyboard macro editor
- Alarms and historical alarm list
- Eight level password protection

Technical Data

The product is available in two versions that differ only by display type.

	Display	Colors	Backlight	Lifetime
MD02F-02	VFD	-	-	
MD02R-04	LCD	-	LCD	100.000 hours

Display		
Rows/columns	2/20	4/20
Character height	5 mm	5 mm
User definable characters	-	8
Contrast regulation	-	Software
Memory		
User memory		512 KB
User memory expansion		512 KB
Front panel		
Function keys		9
System keys		10
Touch screen		-
User LED's		9
System LED's		2
Connections		
PC/Printer port		Yes
PLC port		RS-232, RS-422, RS-485, CL 20 mA
Aux port (fieldbus and Ethernet connection)		Yes, requires optional module
External keyboard port		No
Programming speed		9600 ÷ 38400 bps
Functionality		
Number of variables per page		Unlimited
Dual-driver capability		Yes
Recipe memory		16 KB
Data acquisition and trends		No
UniNet network		Client/Server
Alarms		1024
Event list		256
Alarm info page		Yes
Password		Yes
Battery		CR2430 (3V 270mA Lithium), non rechargeable, user replaceable. Replace with same type or equivalent compatible with the operating temperature of the product
Hardware RTC		Yes
Screen saver		No
Buzzer		No
Power supply voltage		18 ÷ 30 VDC

Max power consumption	0.25 A at 24 VDC
Fuse	2 A (user replaceable)
Weight	~ 0.9 Kg
Operating temperature	
-0045, -0050	0 ÷ +50 °C
-00A6	0 ÷ +60 °C
-00A7	-20 ÷ +60 °C
Storage temperature	-20 ÷ +70 °C
Operating and storage humidity	5 ÷ 85 % RH non-condensing
Protection class	IP65 (front panel)

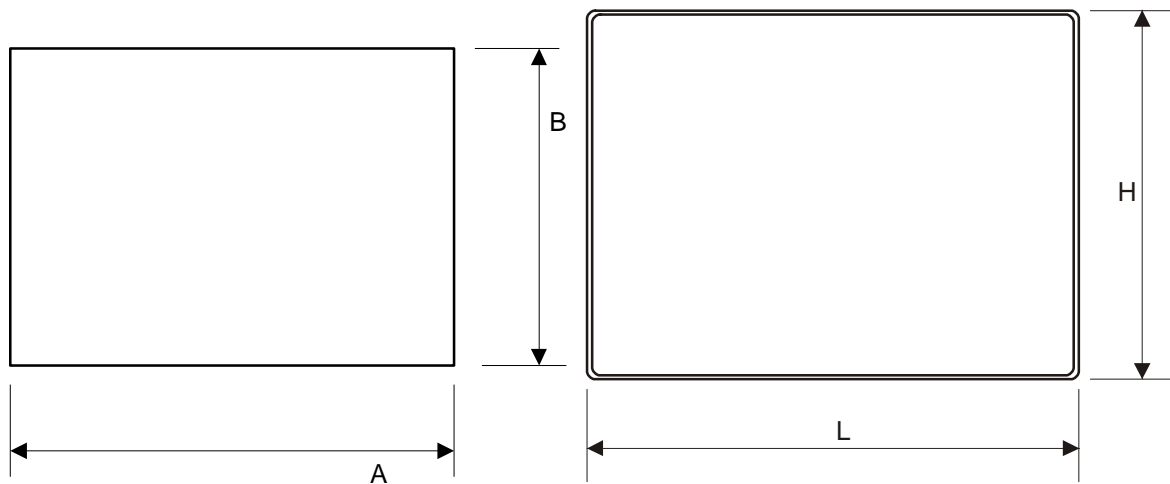
The products are designed for installation in an industrial environment in compliance with the regulations:

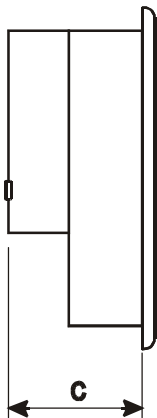
Emitted interference EN 61000-6-4, 2001

Noise immunity EN 61000-6-2, 2001

Front Dimensions and Cutout

Faceplate LxH	195x98 mm	7.67x3.85 "
Cutout AxB	174x78 mm	6.85x3.43 "
Cutout depth C		
-0045, -00A7	74 mm	2.91 "
-0050	82 mm	3.20 "
Max panel thickness	5 mm	0.20"





Connections



The product is compatible with all standard TCM and SCM modules.
To access the slot for the modules, remove the rear cover of the product

The backup battery is accessible for replacement after removing the main module of the unit.

The standard programming cable CA114 can be used with this product.

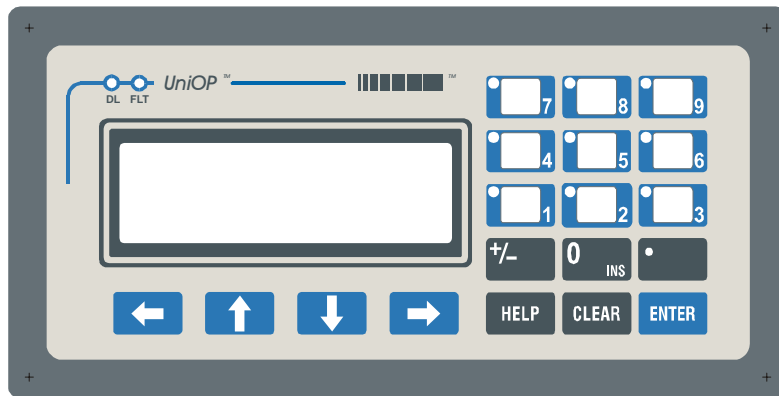
Indicators and keypad

There are several dedicated LED indicators on the front panel of the unit. Functions are described in the table below.

A customizable legend strip is included.

Elements not listed in this chapter are reserved for future use.

LED	Color	Status	Meaning
DL	green	OFF	No keys are pressed and no errors
		BLINK	Communication error
		ON	While any key is pressed (visual feedback)
FL	red	OFF	No hardware problem detected; battery OK
		BLINK	Battery low
		ON	Hardware fault



The RDA mapping of LED indicators is shown in the table below.

RDA Bit	LED on Key
L18	1
L19	2
L20	3
L21	4
L22	5
L23	6
L24	7
L24	8
L26	9

The RDA mapping of all keys is standard.

Function keys associated to keys 1 to 9 have a slide-in legend. Legend strips in laser printable form are available as accessories.

Ordering Information

MD02F-02-0045	Compact low-cost HMI with 2x20 VFD display
MD02R-04-0045	Compact low-cost HMI with 4x20 LCD display
MD02R-04-00A6	Compact low-cost HMI with 4x20 LCD display, extended operating temperature range
MD02R-04-00A7	Compact low-cost HMI with 4x20 LCD display, extended operating temperature range
MD02R-04-0050	Compact low-cost HMI with 4x20 LCD display, compatible with local I/O
R-PRINT2297	Printable legends (5 A4 foils, 8 sets of legends per foil)

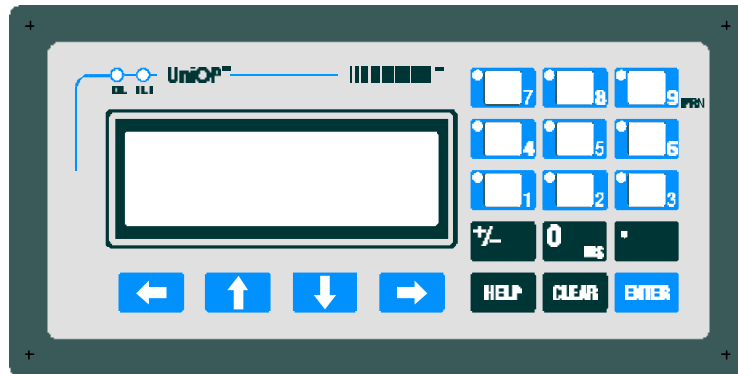
Tn196

Copyright © 2004 Sitek S.p.A. Italy

Subject to change without notice

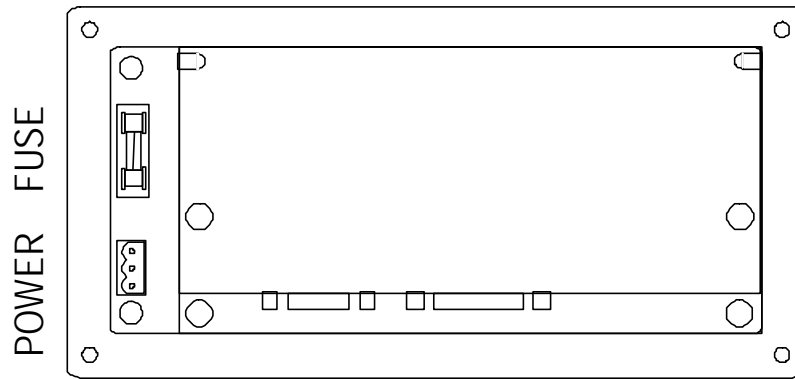
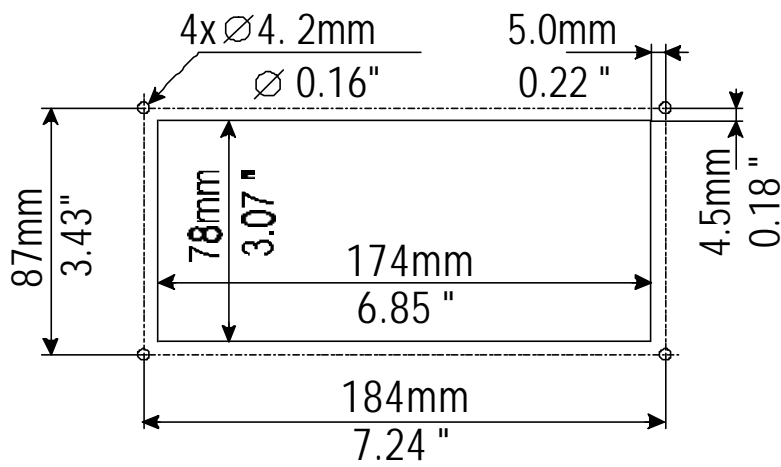
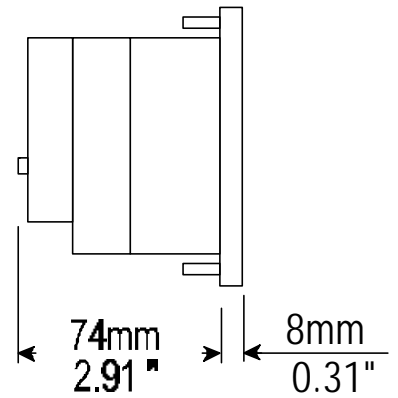
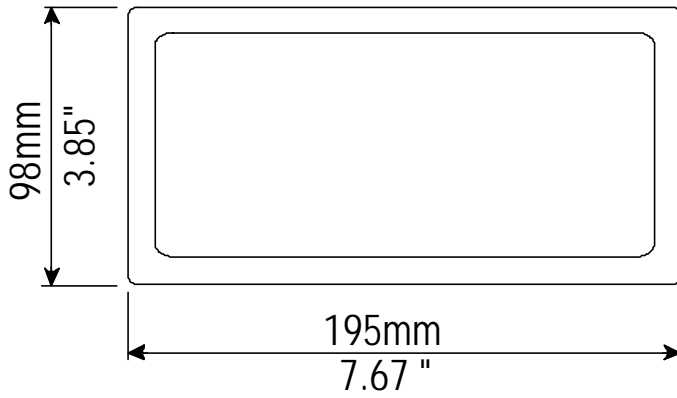
The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

UniOP MD03R-02 and MD03R-04



Technical Data

Display	MD03R-02 2x20 LCD backlit MD03R-04 4x20 LCD backlit
Contrast regulation	software
Keyboard	19 keys (9 function keys + numerical keypad)
User LED	9
Power supply	24 VDC
Program memory	512 KB Flash EPROM (32 KB reserved for protocol)
Communication ports	1 RS-232/RS-485/CL 20 mA port for programming/PLC (-0045)
Aux Port	YES
Alarms	256
Alarm infor page	YES
Number of variables per page	Unlimited
Page size	32 rows
Macro Editor	YES
Hardware Clock/Calendar	NO
Historical Event List	NO
Recipes	NO
UniNET network	Only as a CLIENT node
Password	YES
Printer	NO



UniOP MKDG-05

The MKDG-05 is a compact and low cost operator panel with a large graphic display. The 240x64 graphic monochrome display can show plenty of information in a very effective mechanical size.

Highlights

- **8 line x 40 character graphic monochrome display**
- **Downloadable fonts**
- **Scalable text**
- **20 function keys with slide-in legends**
- **25 user programmable LED indicators**
- **Multilanguage project capability**
- **Connection to bus systems**



The MKDG-05 HMI panel is part of the entry-level range of UniOP products, offering a wide display and numerous function keys in an attractively compact mechanical format.

The MKDG-05 supports the rich common functionality of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, DeviceNet, Interbus, CANopen) and Ethernet
- Display data in numerical, text and bargraph format
- Dynamic graphic objects
- Recipe data storage
- Keyboard macro editor for free programming of keyboard functionality
- Alarms and historical alarm list
- Eight level password protection
- Report printing to serial printer

Technical Data

Display Graphic resolution Active display area Rows/columns Character height Scalable fonts User definable characters Contrast regulation	240x64 127x34 mm 8/40 - Yes 255 Software
Memory User memory User memory expansion	512 KB (64 reserved to the protocol) 512 KB
Front panel Function keys System keys Touch screen User LED's System LED's	20 with slide-in legends 21 No 25 5
Connections PC/Printer port PLC port Aux port (fieldbus and Ethernet connection) External keyboard port Programming speed	Yes RS-232, RS-485, RS-422, 20 mA CL Yes, with optional modules No 9600 - 38400 bps
Functionality Number of variables per page Recipe memory Data acquisition and trends UniNet network Alarms Event list Alarm info page Password Battery Hardware RTC Screen saver Buzzer Power supply voltage Max power consumption Fuse Weight Operating temperature Storage temperature Operating and storage humidity Protection class	Unlimited 16 KB Yes Client/Server 1024 1024 Yes Yes Yes Yes Yes, battery backed Yes No 18-30 VDC ~ 400 mA at 24 VDC Automatic ~ 1.8 Kg 0 to 50 °C -20 to +70 °C 5 - 95 % RH non-condensing IP65 (front panel)

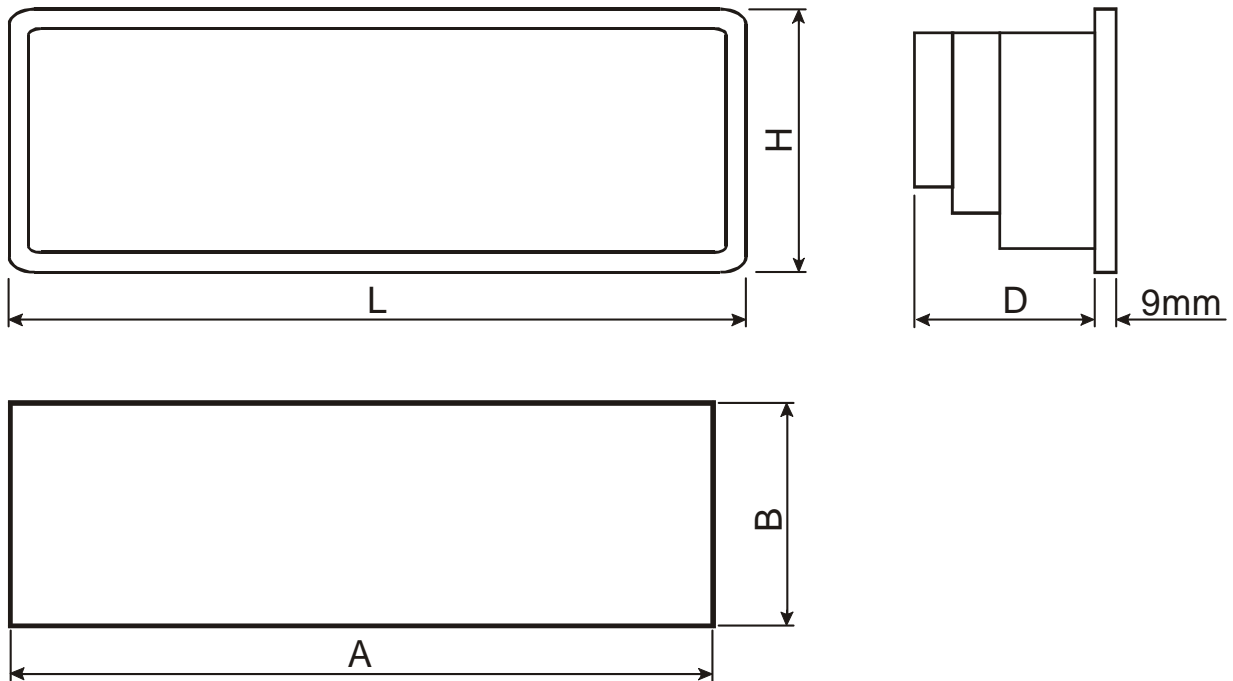
The product is designed for installation in an industrial environment in compliance with the regulations:

Emitted interference EN 61000-6-4, 2001

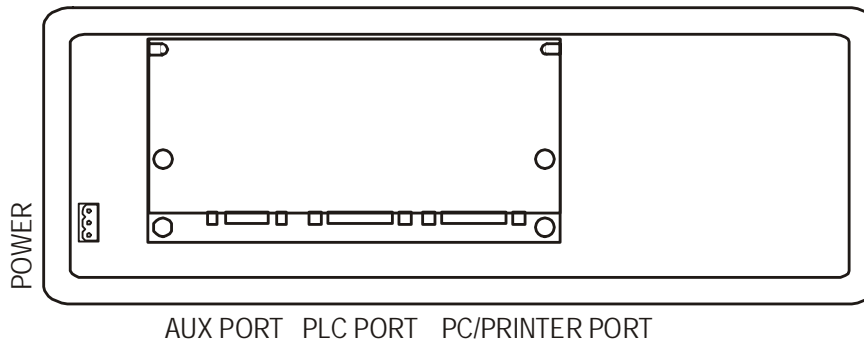
Noise immunity EN 61000-6-2, 2001

Front Dimensions and Cutout

Faceplate LxH	311x111 mm	12.25x2.37"
Cutout AxB	292x92 mm	11.50x3.62"
Cutout depth D (version -0045)	80 mm	3.15"
Max panel thickness	5 mm	0.2"



Connections



Indicators and keypad

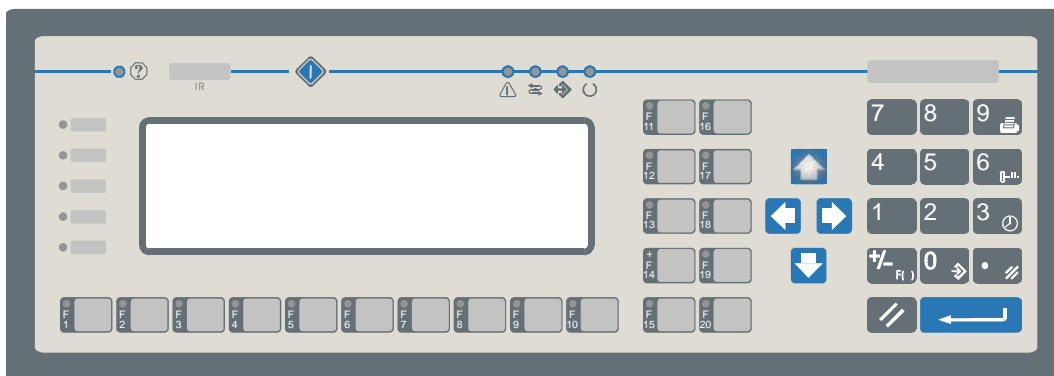
There are several dedicated LED indicators on the front panel of the unit. Functions are described in the table below.

A customizable legend strip is included.



Elements not listed in this chapter are reserved for future use.

LED	Color	Status	Meaning
?	red	OFF	No hardware problem detected
		BLINK	Battery low
		ON	Hardware fault
	green	OFF	No touch cell active
		ON	While any touch cell is active (visual feedback)
C	green	OFF	Hardware fault
		ON	Unit in operation
↔	green	BLINK	Communication error
		ON	Communication OK
!	red	OFF	No alarms
		BLINK	Alarm requires acknowledgment
		ON	Alarm active
↔	green		May be user controlled as LED number 65 using the Macro Editor. Turns ON when recipe/event backup is being performed.



The RDA mapping of LED indicators is standard.

The RDA mapping of all keys is standard.

Ordering Information

MKDG-05-0045

Entry-level HMI with 240x64 graphic LCD display and 20 function keys

UniOP MKDG-06

Low cost HMI unit with monochrome graphic LCD display.

Highlights

- Graphic monochrome display
- 8 rows, 40 columns of text
- Downloadable fonts
- Scalable text
- 23 function keys
- 24 user LEDs
- ASCII keyboard
- Multilanguage project capability
- Connection to bus systems
- New plastic bezel with flat design



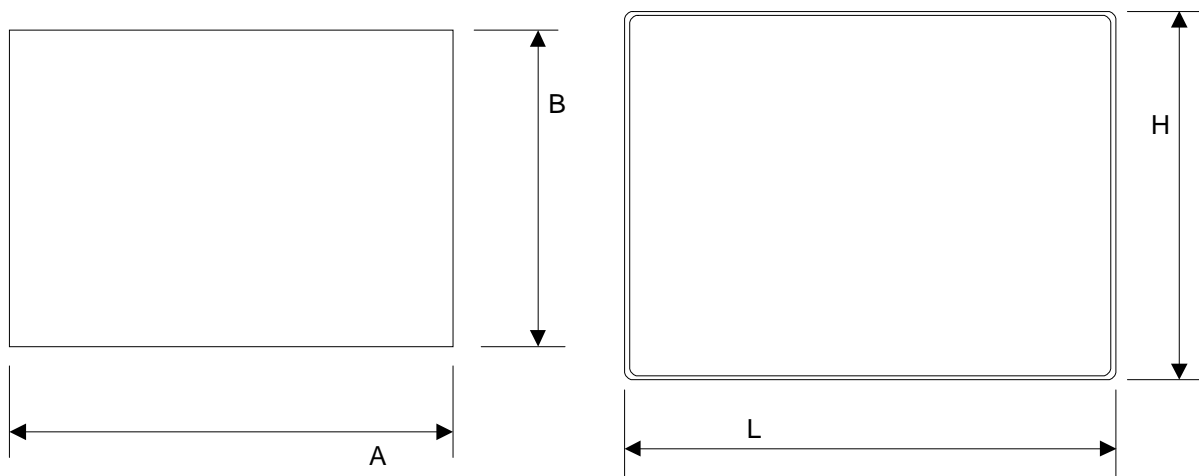
Technical data

Display	Monochrome LCD
Backlight	LED
Graphics	240x64 pixels
Display dimensions	127x34 mm
Rows/columns	8x40
Character height	-
Scalable fonts	Yes
User definable characters	256
Contrast regulation	Software
User memory	512 KB (64 reserved to the protocol)
User memory expansion	512 KB
Function keys	23
System keys	24
Touch screen	No
User LEDs	24
System LEDs	5
PC/Printer port	Yes
PLC port	RS-232, RS-422, RS-485, CL 20 mA
Aux port (fieldbus connection)	Yes, with optional module

External keyboard port	No
Programming speed	9600 ÷ 38400 bps
Page size	32 rows
Number of variables per page	Unlimited
Recipe memory	16 KB
UniNet network	Client/Server
Alarms	1024
Event list	256
Alarm info page	Yes
Password	Yes
Battery	Yes
Hardware RTC	Yes
Screen saver	No
Buzzer	No
Fuse	2 A (user replaceable)
Power supply voltage	18 ÷ 30 VDC
Max power consumption at 24VDC	~ 400 mA
Max panel thickness	5 mm
Weight	
Operating temperature	0 ÷ 50 °C
Storage temperature	-20 ÷ 70 °C
Operating and storage humidity	5 ÷ 95 % UR non-condensing
Protection class	IP-65 (front panel)

Front dimensions and cutout

Front dimensions LxH	220 x 176 mm	8.66 x 6.93 "
Cutout AxB	207 x 163 mm	8.15 x 6.42 "
Cutout depth – version –0045	76 mm	2.99 "
Cutout depth – version –0050 (Snap-top)	79.7 mm	3.14 "

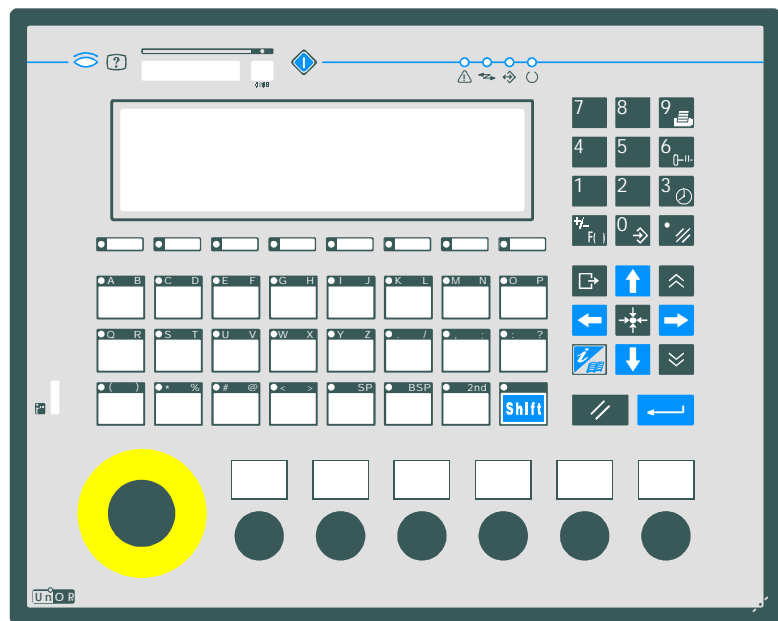


UniOP MKDG-07

HMI unit with monochrome graphic display, ASCII keyboard and ready to house electromechanical devices provided by the user.

Highlights

- Monochrome graphic display
- 8 rows, 40 columns of text
- Downloadable fonts
- Scalable text
- ASCII keyboard
- Ready to house electromechanical devices provided by the user
- Multilanguage project capability
- Connection to bus systems
- New plastic bezel with flat design



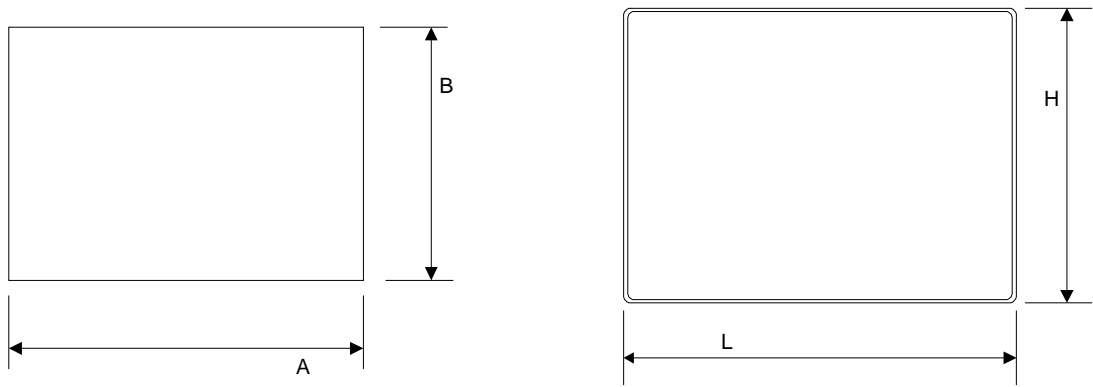
Technical data

Display	Monochrome LCD
Backlight	LED
Graphics	240x64 pixels
Display dimensions	127x34 mm
Rows/columns	8x40
Character height	
Scalable fonts	Yes
User definable characters	256
Contrast regulation	Software
User memory	128 KB (32 KB reserved to the protocol)
User memory expansion	512 KB
Function keys	23
System keys	24
Touch screen	No
User LEDs	32
System LEDs	5

PC/Printer port	Yes
PLC port	RS-232, RS-422, RS-485, CL 20 mA
Aux port (fieldbus connection)	Yes, with optional module
External keyboard port	No
Programming speed	9600 ÷ 38400 bps
Page size	32 rows
Number of variables per page	Unlimited
Recipe memory	16 KB
UniNet network	Client/Server
Alarms	1024
Event list	256
Alarm info page	Yes
Password	Yes
Battery	Yes
Hardware RTC	Yes
Screen saver	No
Buzzer	No
Fuse	2 A (user replaceable)
Power supply voltage	18 ÷ 30 VDC
Max power consumption at 24VDC	~ 400 mA
Max panel thickness	5 mm
Weight	~ 2 Kg
Operating temperature	0 ÷ +50 °C
Storage temperature	-20 ÷ +70 °C
Operating and storage humidity	5 ÷ 95 % UR non-condensing
Protection class	IP65 (front panel)

Front dimensions and cutout

Front dimensions LxH	275x220 mm	10.83x8.66 "
Cutout AxH	262x207 mm	10.31x8.15 "
Cutout depth – version –0045	76 mm	2.99 "
Cutout depth – version –0050 (Snap-top)	80.7 mm	3.18 "
Mechanical keys	1 x Ø 22mm, 6 x Ø 16mm	1 x Ø 0.86", 6 x Ø 0.63"



Industrial Monitors

MON Family



- 10.4" to 15.0" Display Sizes
- Clear Resistive Touchscreen
- Stainless Steel Bezel
- Resolutions from VGA to XGA
- NEMA 4/4X/12 and CE Compliant
- Operating Temperature up to 50 C
- Powered by 24 VDC

The MON industrial monitor is designed to meet the most rugged application needs, while providing the power and performance that you expect from a high-end desktop system. Standard features include a stainless steel bezel, a clear resistive touchscreen, and an analog video input with a 1 volt peak-to-peak signal. All MON products require a 24 VDC power input.

MON products are available with 10.4" and 15.0" displays. The displays have CCFT tubes with an average life ranging from 20,000 hours to 50,000 hours of continuous operation, depending upon the model. As well as standard CE and NEMA 4/4X/12 compliances, the MON products have been tested to IEC 68-2-27, IEC 68-2-6 and Mil-Std-8100 standards.

Each and every MON unit has been designed for and built for use in a harsh, dirty environment. Once a MON is assembled, it is subjected to 72 hours of burn-in testing at 50°C. During this period of time, the MON is having a vast array of tests applied to it to insure that it will perform as well in your factory environment as it does in ours. Only after this testing period will any MON be approved for customer use.

Environment

Operating Temperature 0 - 50° C
 Humidity 0% - 95% non-condensing
 Operating Power 24 V DC, 3 A nominal (±10%)

Touchscreen Properties

Type Clear resistive
 Resolution 4096 x 4096 matrix

15.0" Display Characteristics – MON-15X

Resolution..... 1024 x 768
 Dot Pitch..... 0.300 mm²
 Brightness (NITS) 250 cd/m²
 Backlight Life..... 50,000 hours
 Number of Colors..... 256K
 Horizontal Viewing Angle 85° Left / 85° Right
 Vertical Viewing Angle..... 85° Up / 85° Down

Physical Characteristics

Bezel Height..... 12.690"
 Bezel Width..... 15.560"
 Cutout Height 11.800"
 Cutout Width..... 14.700"
 Unit Depth 4.080"

10.4" Display Characteristics – MON-10/10S

Resolution..... 640 x 480 (MON-10) / 800 x 600 (MON-10S)
 Dot Pitch..... 0.330 mm²
 Brightness (NITS) 200 cd/m²
 Backlight Life..... 20,000 hours
 Number of Colors..... 256K
 Horizontal Viewing Angle 70° Left / 70° Right
 Vertical Viewing Angle..... 45° Up / 50° Down

Physical Characteristics

Bezel Height..... 10.060"
 Bezel Width..... 11.810"
 Cutout Height 9.200"
 Cutout Width..... 10.930"
 Unit Depth 3.710"



MON Ordering Information

Description	Part Number
10.4" MON with VGA Resolution	MON-10
10.4" MON with SVGA Resolution	MON-10S
15.0" MON with XGA Resolution	MON-15X

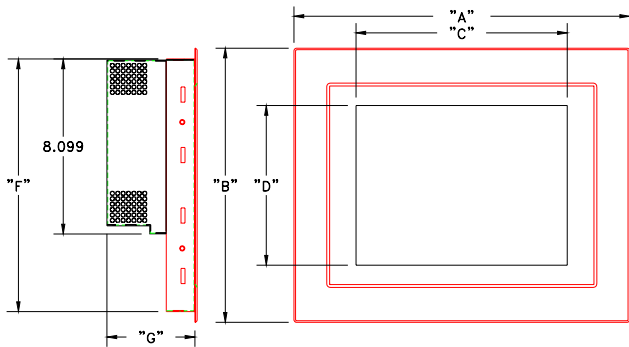
For example, a 15.0" Monitor would be ordered as:

- MON-15X

Warranty

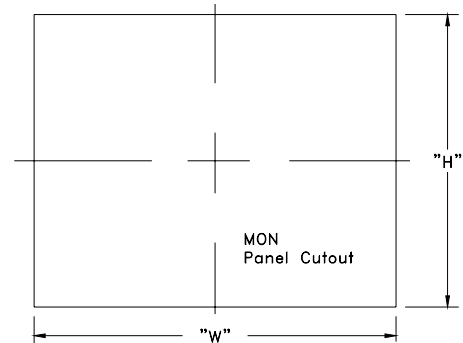
All products are warranted for one year from date of shipment against defects in material and workmanship.

Frontal and Side View Drawings



Display Size	A	B	C	D	F	G
10.4	11.81	10.06	8.60	6.57	9.06	3.71
15.1	15.56	12.69	12.26	9.19	11.69	4.08

Cutout Drawing



Display Size	W	H
10.4	10.93	9.20
15.1	14.70	11.80

Specifications subject to change without notice



Industrial Computers XLIN Family



- **Stainless Steel Enclosed System**
- **NEMA 4/4X, CE and UL Compliant**
- **Windows 2000, XP Operating System**
- **15.0" LCD TFT Display**
- **Pentium M 1.5Hz Processor**
- **Slots – 4 PCI OR 2 PCI & 2 ½-Size ISA**
- **Hard Drive or Compact Flash Media**
- **256 MB RAM Expandable to 1 GB RAM**
- **Intel 10/100/1000 Gigabit Ethernet Port**
- **Clear Resistive Touch screen**
- **One RS-232 Port**
- **Two USB 2.0 ports**
- **PS/2 Mouse/Keyboard Port**
- **Analog Video Out Port**
- **64 Mb Intel Extreme Graphic 2 Video**
- **Optional Integral Floppy Drive and/or CD ROM Drive**

The XLIN industrial computer is designed to meet the most rugged application needs, while providing the power and performance that you expect from a high-end desktop system. Standard features include a Pentium M 1.5 GHz processor, clear resistive touchscreen, selectable 10/100-Base-T Ethernet port, RS-232 serial port, parallel port, PS/2 mouse/keyboard port and analog video out port. An integrated floppy drive and/or CD ROM drive can be included for simplified program loading. The Pentium M 1.5 GHz CPU has comparable benchmarks to an Intel Pentium 4 2.8 GHz processor.

TFT display is available in 15.0" with XGA resolution. The XLIN products are CE compliant, as well as NEMA 4/4X compliant when properly mounted in a correspondingly rated enclosure. The XLIN family also offers compatibility with VDE 0871 standards for EMI/RFI, as well as IEC 801 standards for ESD.

Each and every XLIN unit has been designed for and built to use in a harsh, dirty, computer-unfriendly environment. Once an XLIN is assembled, it is subjected to 72 hours of burn-in testing at 50°C. During this period of time, the XLIN is having a vast array of tests applied to it to insure that it will perform as well in your factory environment as it does in ours. Only after this testing period will any XLIN be approved for customer use.

Specifications

Environment

Operating Temperature.....	0 - 50° C
Humidity.....	0% - 95% non-condensing
Operating Power.....	24 V DC, 4 A nominal (±10%)

Touchscreen Properties

Type.....	Clear resistive
Resolution.....	4096 x 4096 matrix

15.0" Display Characteristics

Type.....	TFT
Resolution.....	1024 x 768
Dot Pitch.....	0.300 mm ²
Brightness (NITS)	250 cd/m ²
Backlight Life.....	50,000 hours
Number of Colors.....	256K
Horizontal Viewing Angle	85° Left / 85° Right
Vertical Viewing Angle.....	85° Up / 85° Down

Physical Characteristics - 15.0" Display

Bezel Height.....	12.69"
Bezel Width.....	15.56"
Cutout Height	11.80"
Cutout Width.....	14.70"
Unit Depth.....	4.58"
Unit Weight.....	9.5 lbs

XLIN Ordering Information

Description	Part Number
15.0" XLIN	XLIN-15.0

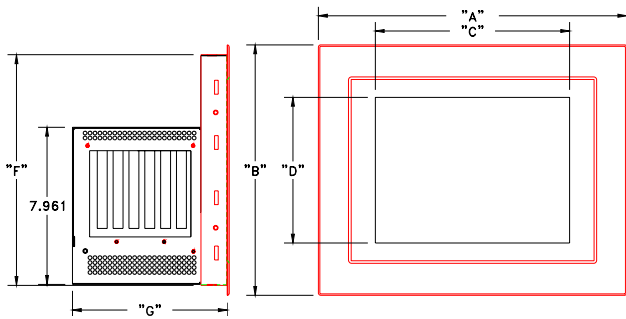
Operating System Ordering Information

Description	Part Number
Windows 2000	WIN-2000
Windows XP	WIN-XP

Storage Media Ordering Information

Description	Part Number
Hard Drive (minimum of 20 GB)	HD
256 MB Compact Flash	CF-256
512 MB Compact Flash	CF-512
1 GB Compact Flash	CF-1024

Frontal and Side View Drawings



Display Size	A	B	C	D	F	G
15.0	15.56	12.69	12.26	9.19	11.69	8.07

Additional Memory Ordering Information

Description	Part Number
Memory Total of 256 MB RAM	M256
Memory Total of 512 MB RAM	M512
Memory Total of 1024 MB RAM	M1024

Optional Hardware Ordering Information

Description	Part Number
Integrated Floppy Drive	FL1.44
Integrated CD ROM Drive	CD-ROM

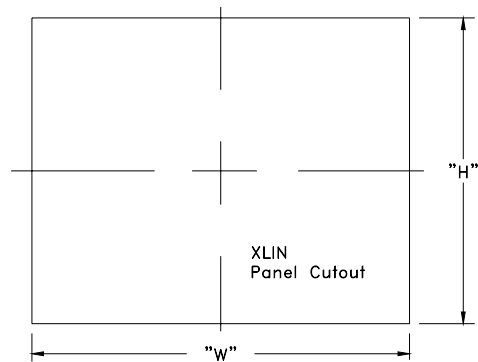
For example, a 15.0" XLIN with Windows 2000, 256 MB RAM, a hard drive and an integrated floppy drive would be ordered as:

XLIN-15.0-WIN-2000-HD-M256-FL1.44

Warranty

All products are warranted for one year from date of shipment against defects in material and workmanship.

Cutout Drawing



Display Size	W	H
15.0	1470	11.80

Specifications subject to change without notice

