

## 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

<b>Display</b>		Alarms	1024
Type	Monochrome LCD	Event list	ePAD03 256 ePAD04 -
Resolution	120x32	Password	Yes
Rows/columns	4x20	Hardware RTC	ePAD03 Yes, battery back-up ePAD04 -
Scalable fonts	Yes	Screen saver	-
Active display area	70x21 mm	Buzzer	-
User definable characters	256	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. ePAD04 -
Backlight	LED		
Contrast regulation	Software		
<b>Memory</b>			
User memory	512 KB Flash		
User memory expansion	-		
<b>Front panel</b>		<b>Ratings</b>	
Touch screen	-	Power supply voltage	18 - 30 VDC
Function keys	4, with slide-in legend	Current consumption	0.25 A at 24 VDC
System keys	7	Fuse	Automatic
User LED's	5	Weight	1 Kg
System LED's	4		
<b>Interfaces</b>		<b>Environmental Conditions</b>	
PC/Printer port	-	Operating temperature	-0046 0 to 50 °C -00B6 0 to 60 °C -00B7 -20 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)
<b>Functionality</b>		<b>Dimensions</b>	
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

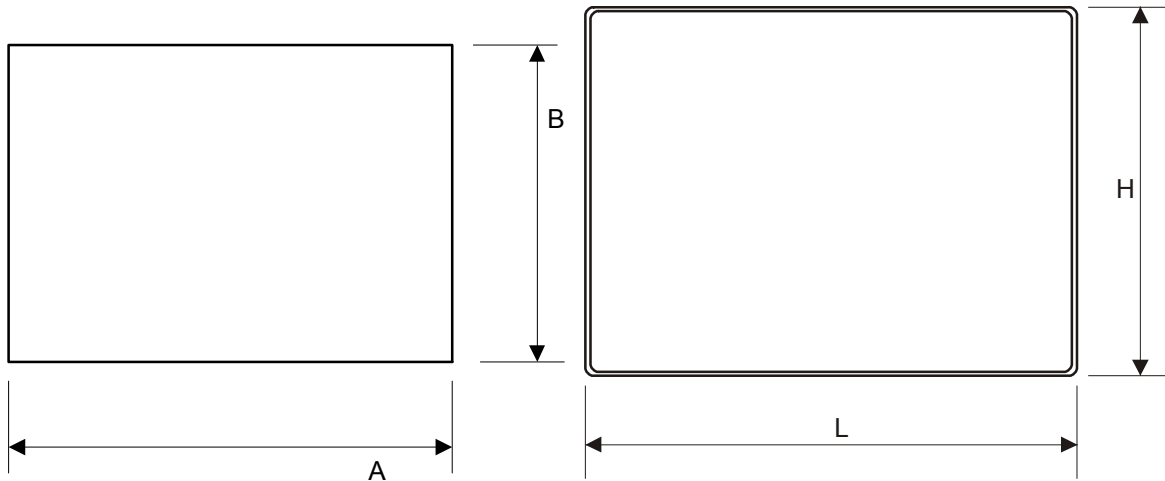


Figure 1 – Cutout and front view

### 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)

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