

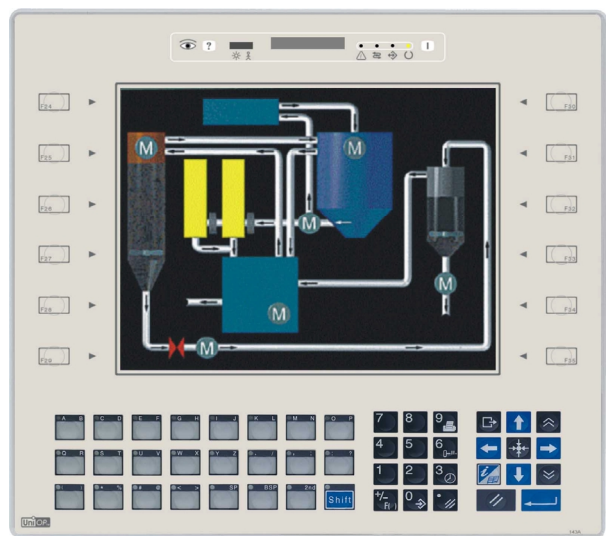
## UniOP ePAD30, ePAD32

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.

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

<b>Display</b>	
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)
<b>Memory</b>	
User memory	8 MB SSFDC memory card
User memory expansion	max 16 MB SSFDC memory card
<b>Front panel</b>	
Function keys	35
System keys	24
Touch screen	Resistive for ePAD30T
User LED's	24
System LED's	4
<b>Connections</b>	
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
<b>Functionality</b>	
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	

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)

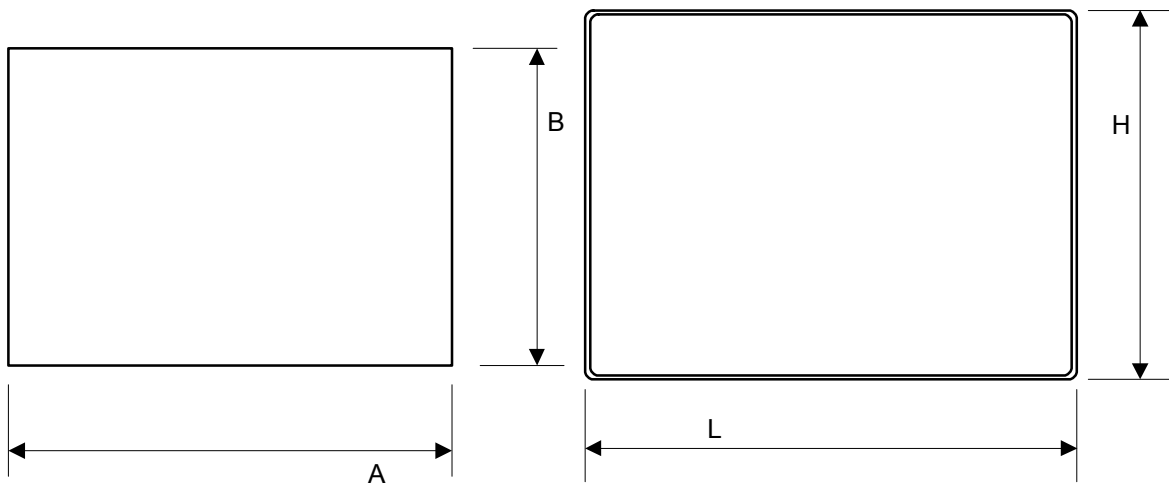
The product is designed for installation in an industrial environment in compliance with the regulations:

Emitted interference EN 50081-2, 1993

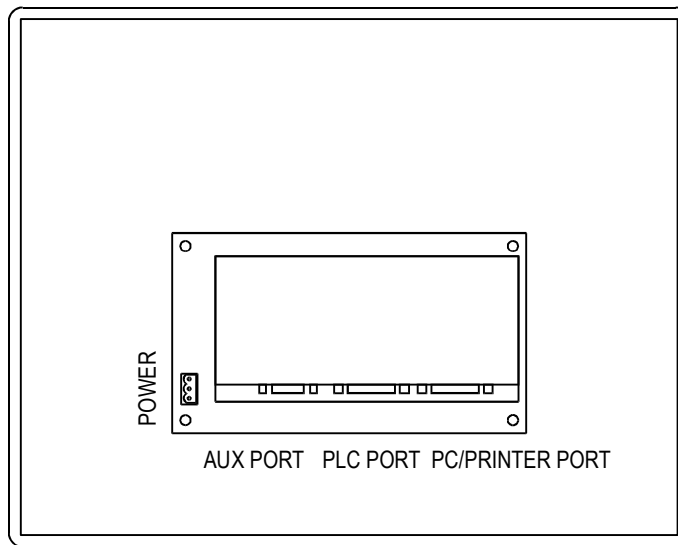
Noise immunity EN 61000-6-2

### 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"

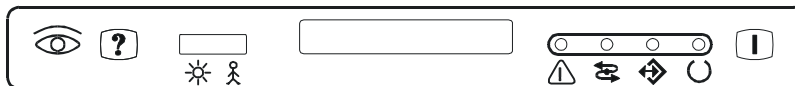


**Connections**



**Indicators and keypad**

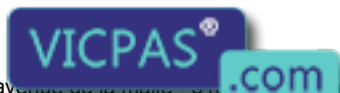
There are several dedicated LED indicators on the front panel of the unit. Functions are described in the table below.

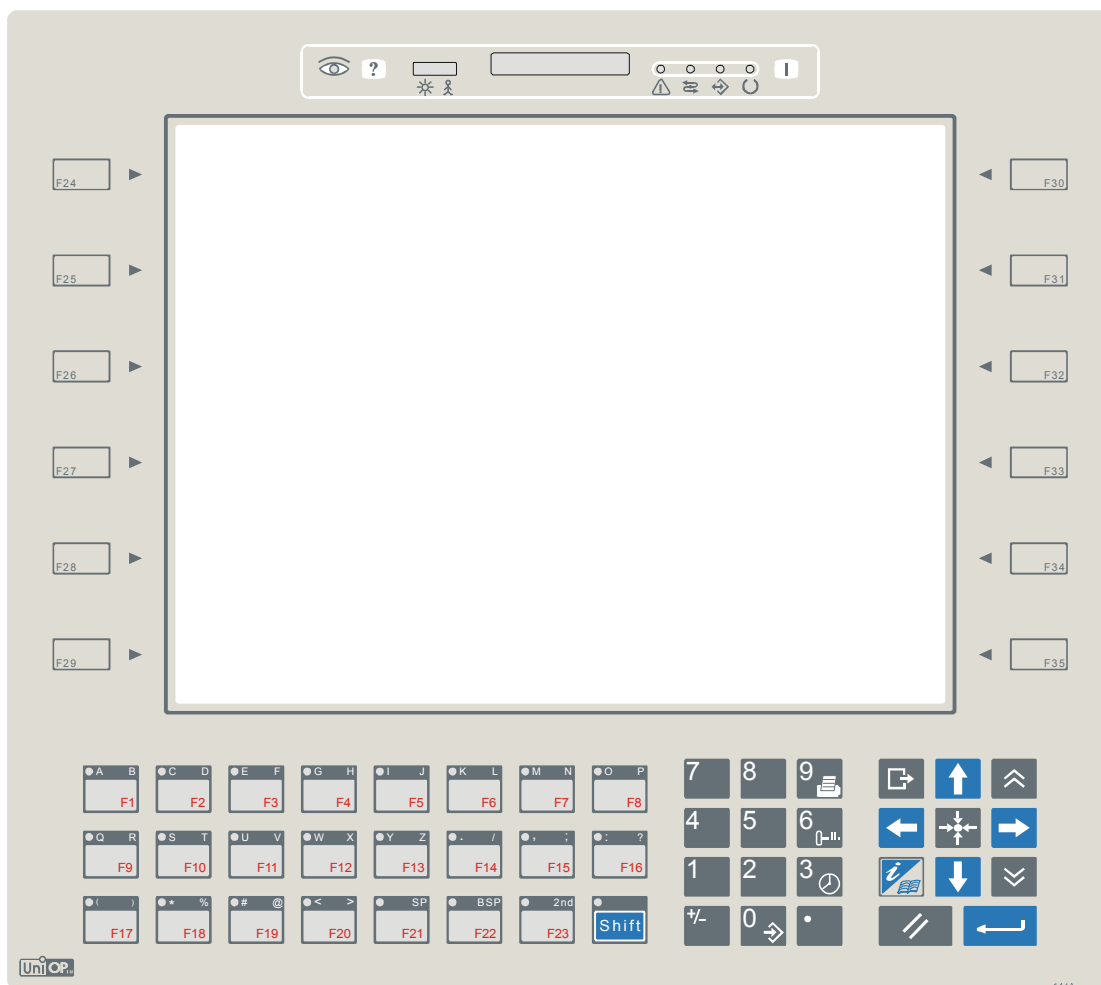


Elements not listed in the table are reserved for future use.

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	RDA Bit	LED on Key
L1	F1	L17	F17
L2	F2	L18	F18
L3	F3	L19	F19
L4	F4	L20	F20
L5	F5	L21	F21
L6	F6	L22	F22
L7	F7	L23	F23
L8	F8	L24	
L9	F9	L25	
L10	F10	L26	
L11	F11	L27	
L12	F12	L28	
L13	F13	L29	
L14	F14	L30	
L15	F15	L31	
L16	F16	L32	

The RDA mapping of all keys is standard. 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	10.4" TFT color display
ePAD32-0050	9.6" monochrome display
ePAD30T-0050	10.4" TFT color display and resistive touchscreen
R-PRINT2852	Printable legends (5 A4 foils, 5 sets of legends per foil)

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