

## UniOP eTOP49CP

The eTOP49CP is a state-of-the-art HMI device featuring a high-brightness sunlight-readable 12.1" TFT color display with 800x600 (SVGA) 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. Connectivity is ensured by the integrated 10/100 Ethernet interface and the dual-module option. The coated electronics and the extended operating temperature range make this product ideal for applications in harsh environments.



- 12.1" TFT color display
- High brightness
- 800x600 pixel (SVGA) resolution, 64K colors
- Resistive touchscreen
- 64 MB user memory
- 10/100 Ethernet interface
- USB port
- Dual-module option
- Compatible with local I/O
- Extended operating temperature range
- Protective coating

### 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:

- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 150 communication drivers for industrial devices
- Built-in Ethernet port for connection to field devices as well as programming the HMI from Designer.
- USB host port for the connection of flash drives. Flash drives can be used for application upgrade as well as firmware upgrade of the device
- Optional plug-in modules for fieldbus systems and networks
- 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, analog gauges and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Recipe data storage. Recipe data can be transferred to a host computer using the Ethernet connection or copied to flash drives via USB 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.
- 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

<b>Display</b>		Screen saver	Yes
Type	TFT	Buzzer	Yes, audible feedback for touch screen
Resolution	SVGA, 800x600 pixel	<b>Ratings</b>	
Active display area	12.1" diagonal (246x184 mm)	Power supply voltage	24 V DC (18 to 30 Vdc)
Colors	64K	Current consumption	1.8A at 24Vdc(max.)
Backlight	CCFL, 50000 h <sup>(note 1)</sup>	Fuse	Automatic
Brightness	700 Cd/m <sup>2</sup> typ.	Weight	Approx 3.7 Kg
Dimming	Yes	Battery	3 V 285 mA Lithium, non rechargeable, user replaceable, RENATA model CR2430. Replace with same component or equivalent.
<b>Memory</b>		<b>Environmental Conditions</b>	
User memory	64 MB internal Flash	Operating temperature	-10 to 55 °C (-10 to 45 °C with UIM05P)
Alternate User memory	Optional removable 32/64 MB SSFDC memory card	Storage temperature	-20 to +70 °C
<b>Front panel</b>		Operating and storage humidity	5 – 85 % RH non-condensing
Touch screen	Analog resistive	Protection class	IP65 (front panel) IP20 (rear)
Function keys	1	<b>Dimensions</b>	
System keys	-	Faceplate LxH	337x267 mm (13.26x10.51")
User LED's	1	Cutout AxB	326x256 mm (12.83x10.08")
System LED's	4	Mounting depth D	103 mm (4.05")
<b>Interfaces</b>		<b>Approvals</b>	
PC/Printer port	Yes, RS-232	CE	Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments
PLC port	RS-232, RS-485, RS-422	RINA	Type approval certificate for installation in naval environments <sup>(note 3)</sup>
Ethernet port	10/100 Mbit	Germanischer Lloyd	Type approval certificate, category C, EMC1 <sup>(note 3)</sup>
USB port	Host version 1.1 <sup>(note 2)</sup>		
Aux port (fieldbus)	2, with optional modules <sup>(note 4)</sup>		
DX port (video input)	Yes <sup>(note 4)</sup>		
Serial programming speed	9600 – 38400 bps		
Local I/O	Yes, with optional modules		
<b>Functionality</b>			
Vector graphics	Yes		
Dual driver capability	Yes		
Video input	Yes		
Data acquisition and trends	Yes		
Recipe memory	Yes. Flash memory storage limited only by available memory <sup>(note 2)</sup>		
UniNet network	Client/Server		
Alarms	1024		
Event list	1024		
Password	Yes		
Hardware RTC	Yes, battery back-up		

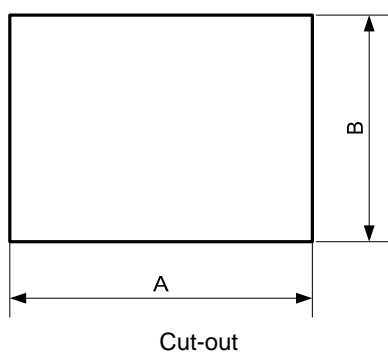
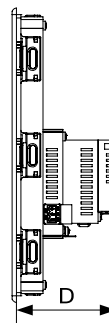
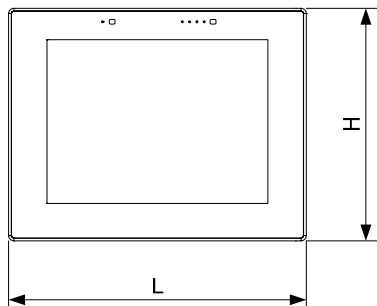
Note 1: the lamp lifetime is the typical value for continuous operation at 25°C.

Note 2: operation of the built-in USB interface and recipe storage to flash memory require an appropriate firmware version and use of Designer 6.07 or higher.

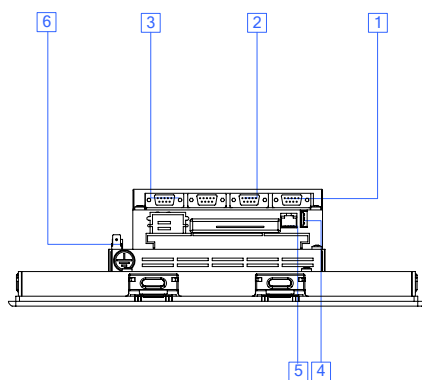
Note 3: a filter NEF 1-10 Phoenix Contact or equivalent must be installed to comply with emission limits for equipment installed in naval environments in the bridge and deck zone according to RINA/GL rules.

Note 4: the optional modules may be not available as RINA/GL certified components. Make sure you verify the updated specification of the products.

## Dimensions



## Connections



- 1 PC/Printer Port
- 2 PLC Port
- 3 Aux Port 1 and Aux Port 2
- 4 USB Port
- 5 Ethernet Port
- 6 Power Supply

**Ordering Information**

eTOP49CP-0052	12.1" SVGA high-brightness TFT color panel with touchscreen, dual option modules, protective coating
SCM05P-C	PLC module, CoDeSys, CANopen interface, protective coating
TCM09P	CANopen interface module, protective coating
UIM05P	Local I/O module, protective coating
PROT-05	Disposable protection foil for 12.1" eTOP touch panels (10 pieces)

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Ver. 1.2

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tn278-2.doc - 13.11.2008

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