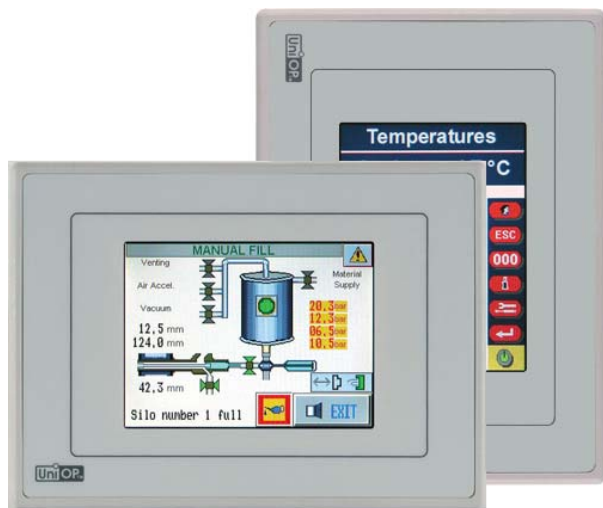**EXOR**

Tech-note

UniOP eTOP02C

The eTOP02C is a compact HMI device with a brilliant TFT display and touchscreen interface. The built-in 100Mb Ethernet interface enhances its communication capability. 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
- Portrait mode operation
- Resistive touchscreen
- 2 MB user memory
- Ethernet interface
- Connection to industrial bus systems (requires optional plug-in modules)

Highlights

The eTOP02C panel is a compact and low-cost product. It is an enhanced version of the standard eTOP02 with the addition of an Ethernet interface. It supports the rich common functionality 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
- Integrated Ethernet port for connection to field devices as well as programming the HMI from Designer.
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus).
- Dual-driver communication capability; dual serial communication configurations are possible with the use of the optional TCM15/TCM16 modules.
- Advanced graphic capabilities
- Optimize mounting space and options with the portrait mode 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	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	2 MB internal Flash
Alternate User memory	-

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
Ethernet port	100 Mbit
Aux port (fieldbus)	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 (vertical mounting)
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")

Approvals

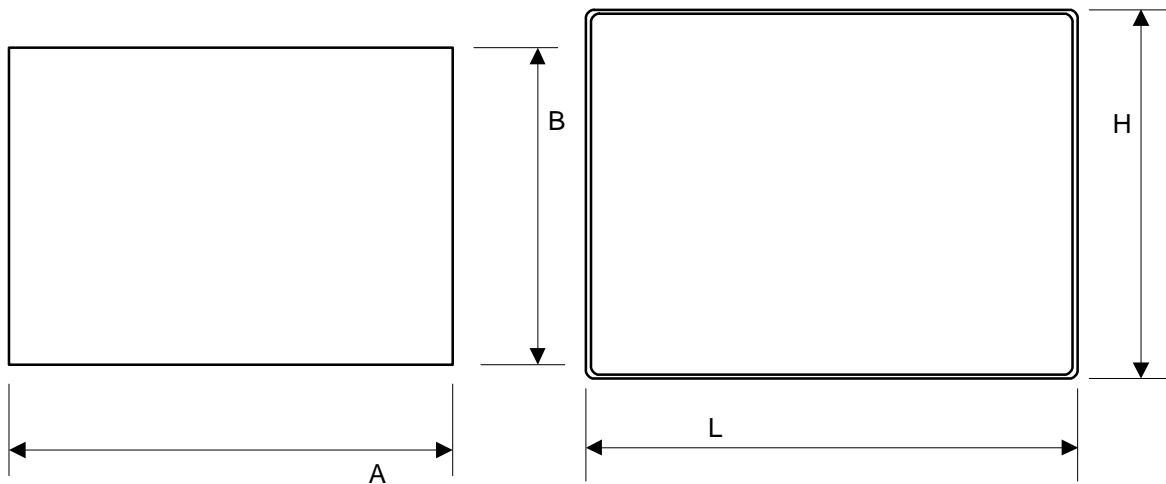|	
CE	Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments

Figure 1 – Cutout and front view

Ordering Information

eTOP02C-0046	3.5" 1/4 VGA TFT color touchscreen panel with Ethernet interface
PROT-07	Disposable protection film for 3.5"/3.8" eTOP touch panels (10 pieces)
TCM15	Add-on module for serial expansion RS-232
TCM16	Add-on module for serial expansion RS-485