EXOR
Tech-note

UniOP eTOP04C

The eTOP04C is a compact HMI device with touchscreen interface and a high-resolution 4.3" widescreen TFT display. 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.

- 4.3" TFT color display
- 256 colors
- 480x272 pixel resolution
- Resistive touchscreen
- 2 MB user memory
- Ethernet interface
- USB port
- Connection to industrial bus systems (requires optional plug-in modules)
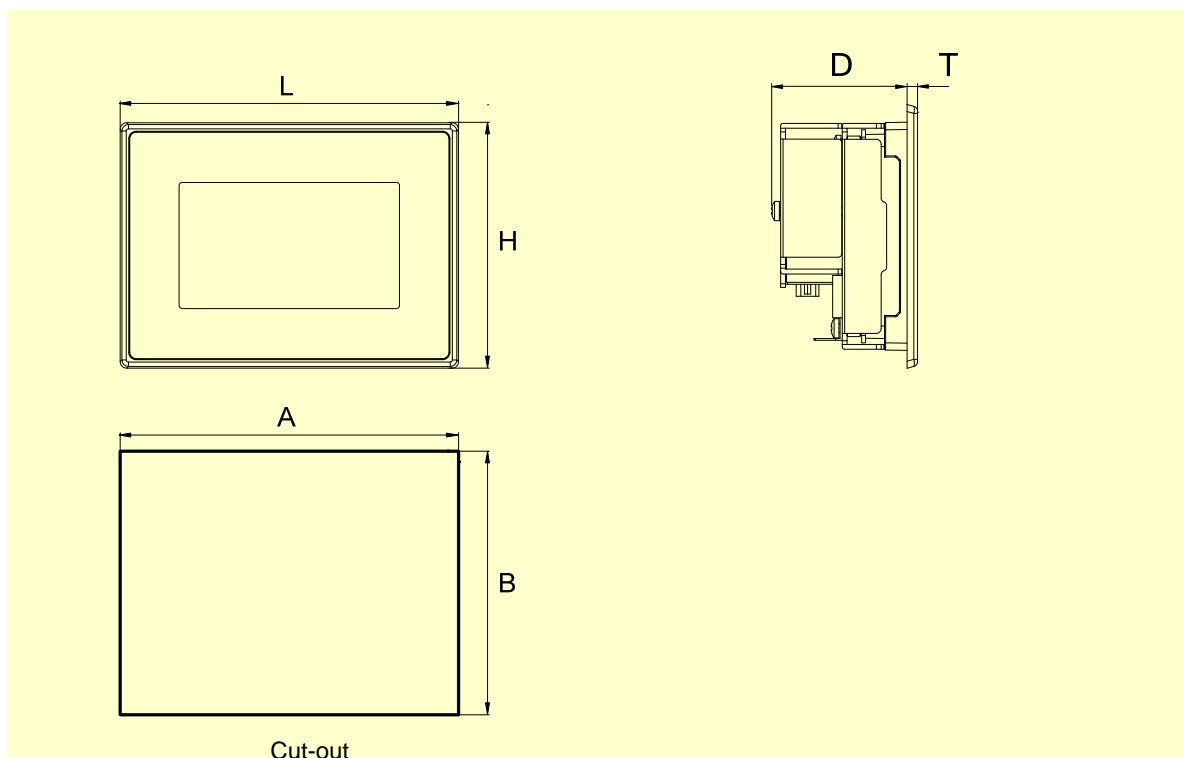
Highlights

The eTOP04C panel is a compact and low-cost product. 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 150 communication drivers for industrial devices
- Integrated 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 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
- 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 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 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.
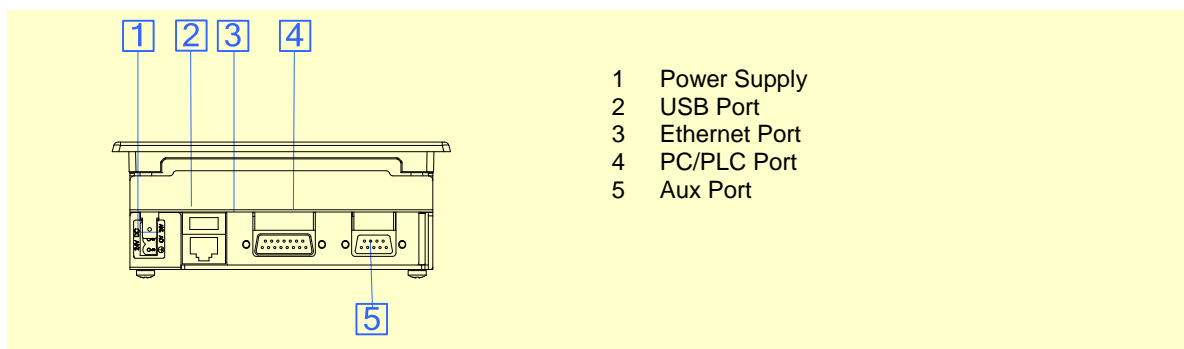
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Technical Data

Display
Type	TFT
Resolution	480x272 pixel
Active display area	4.3"diagonal (95.4x53.9 mm)
Colors	256
Backlight	LED
Brightness	120 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
USB port	Host version 1.1
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
UniNet network	Client/Server
Alarms	1024
Event list	256
Password	Yes
Hardware RTC	Yes, battery backed
Screen saver	Yes
Buzzer	No
Battery	Rechargeable Lithium battery, not user-replaceable

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 D+T	56 + 4.5mm (2.40+0.18")

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

Dimensions

Cut-out

Connections

1   Power Supply
2   USB Port
3   Ethernet Port
4   PC/PLC Port
5   Aux Port

Ordering Information

eTOP04C	4.3" 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