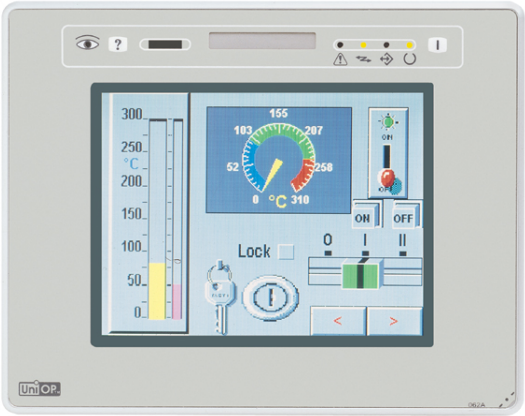
Tech-note

UniOP eTOP19B

The eTOP19B is a state-of-the-art HMI with touchscreen interface and a 5.6” Enhanced TFT color display specifically designed for use under extreme illumination conditions. The enhancement technologies implemented in the display make this panel readable when normal TFT displays would not be usable. Support for 64K colors in the brilliant TFT display will increase the realism of the images. The wide operating temperature range extends even further the applicability of this product. The characteristics of touchscreen and display make this unit the ideal choice for high-end HMI applications in critical environments.



- 5.6” enhanced TFT color display
- 1/4 VGA (640x480 pixel) resolution
- 64K colors
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- Compatible with video input module
- 32 MB internal user memory
- Extended operating temperature range

Highlights

The eTOP HMI panels are part of the UniOP family of touchscreen products. All of the eTOP products support the rich common functionalities 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
- 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.
- 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 and graphic image formats
- Data acquisition and trend presentation. Trend data can be transferred to a host computer using the Ethernet connection.
- Analog gauge objects
- 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	1/4 VGA, 320x240 pixel
Active display area	121x91 mm (5.6" diagonal)
Colors	64K
Backlight	CCFL, 25000 h (note 1)
Brightness	500 cd/m^2 typ.
Dimming	Yes
Memory	
User memory	32 MB internal Flash
User memory expansion	Optional removable 32 MB SSFDC memory card
Front panel	
Touch screen	Analog resistive
Function keys	1
System keys	-
User LED's	1
System LED's	4
Interfaces	
PC/Printer port	Yes
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop
Aux port (fieldbus and Ethernet)	Yes, with optional modules
DX port (video input)	Yes
Serial programming speed	9600 – 38400 bps
Functionality	
Vector graphics	Yes
Dual driver capability	Yes
Video input	Yes
Data acquisition and trends	Yes

Recipe memory	32 KB
UniNet network	Client/Server
Alarms	1024
Event list	1024
Password	Yes
Hardware RTC	Yes, battery backed
Screen saver	Yes
Buzzer	Yes, audible feedback for touch screen
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 consumption	Max 0.6 A at 24 VDC
Fuse	Automatic
Weight	Approx 1.4 Kg
Environmental Conditions	
Operating temperature	-10 to 55 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 – 85 % RH non-condensing
Protection class	IP65 (front panel)
Dimensions	
Faceplate LxH	187x147 mm (7.36x5.79")
Cutout AxB	176x136 mm (6.93x5.35 ")
Mounting depth (type 0050)	91 mm (3.58")
Max panel thickness	5 mm (0.2")

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

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

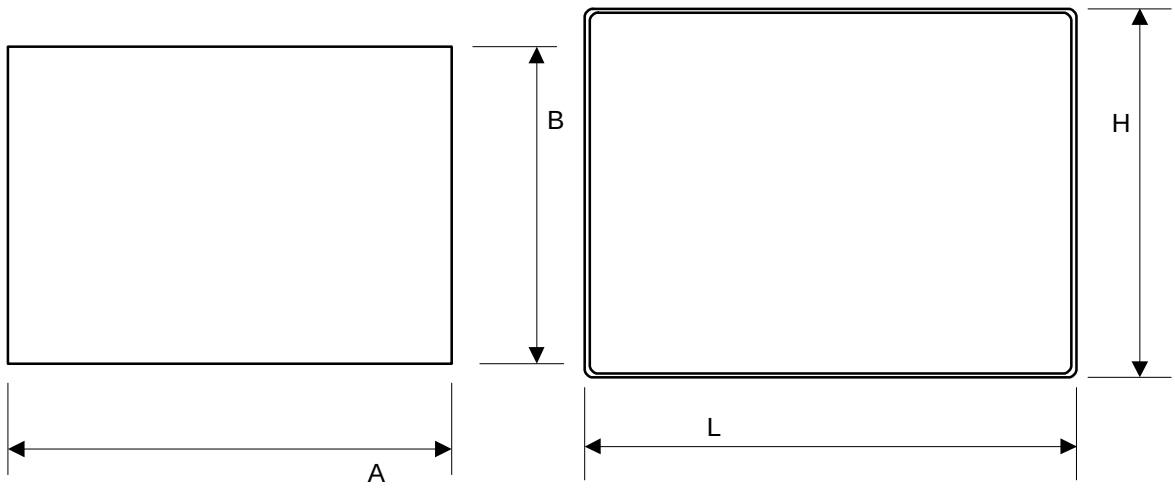


Figure 1 – Cutout and front view

Ordering Information

eTOP19B-0050	5.6” 1/4 VGA enhanced TFT color panel with touchscreen

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