

## UniOP eTOP20B and eTOP21B

The eTOP20B and eTOP21B are state-of-the-art HMI devices with touchscreen interface and 7.5" TFT and STN color graphic displays. Support for 64K colors in the brilliant TFT display will increase the realism of the images. The compact size and the VGA resolution make them an attractive solution where space is a premium without compromising performance.



- 7.5" TFT and STN color displays
- VGA (640x480 pixel) resolution
- 64K colors (eTOP20B only)
- Resistive touchscreen
- Connection to industrial bus systems and Ethernet (requires optional plug-in modules)
- Compatible with video input module (eTOP20B only)
- Large memory size (32MB Flash) on removable media

### 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 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 (eTOP20B only)
- 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

<b>Display</b>		<b>Data acquisition and trends</b>	
Type	eTOP20B TFT eTOP21B STN	Recipe memory	Yes
Resolution	VGA, 640x480 pixel	UniNet network	32 KB
Active display area	154x116 mm (7.5" diagonal)	Alarms	Client/Server
Colors	eTOP20B 64K eTOP21B 256	Event list	1024
Backlight	CCFL, 50000 h <sup>(note 1)</sup>	Password	1024
Brightness	eTOP20B 330 cd/m <sup>2</sup> typ. eTOP21B 180 cd/m <sup>2</sup> typ.	Hardware RTC	Yes
Dimming	eTOP20B Yes eTOP21B No	Screen saver	Yes, battery backed
<b>Memory</b>		Buzzer	Yes
User memory	32 MB Flash	Battery	Yes, audible feedback for touch screen
User memory expansion	Alternate 32 MB SSFDC memory card	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.	
<b>Front panel</b>		<b>Ratings</b>	
Touch screen	Analog resistive	Power supply voltage	18 - 30 VDC
Function keys	1	Current consumption	
System keys	-	Fuse	Automatic
User LED's	1	Weight	
System LED's	4	<b>Environmental Conditions</b>	
<b>Interfaces</b>		Operating temperature	0 to 45 °C
PC/Printer port	Yes	Storage temperature	-20 to +70 °C
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop	Operating and storage humidity	5 – 85 % RH non-condensing
Aux port (fieldbus and Ethernet)	Yes, with optional modules	Protection class	IP65 (front panel)
DX port (video input)	eTOP20B Yes eTOP21B No	<b>Dimensions</b>	
Serial programming speed	9600 – 38400 bps	Faceplate LxH	232x187 mm (9.14x7.63")
<b>Functionality</b>		Cutout AxB	221x176 mm (8.70x6.93")
Vector graphics	Yes	Cutout depth (type 0045)	74 mm (2.92")
Dual driver capability	Yes	Max panel thickness	5 mm (0.2")
Video input	eTOP20B Yes eTOP21B No		

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

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

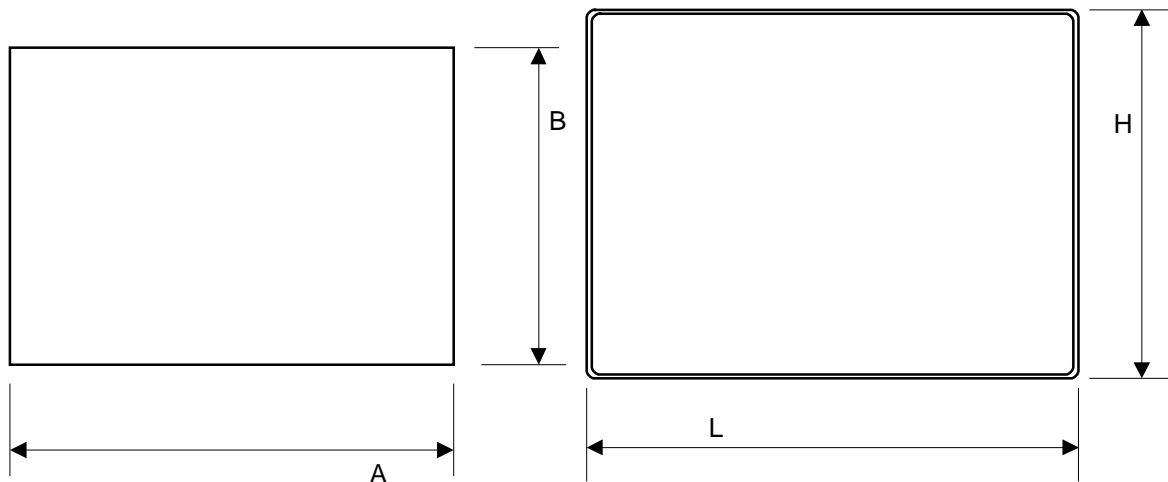


Figure 1 – Cutout and front view

### Ordering Information

eTOP20B-0045  
eTOP21B-0045

7.5" VGA TFT color panel with touchscreen  
7.5" VGA STN color panel with touchscreen

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**Tn203**

**Ver. 1.00**

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