

## 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)
- 32 MB internal user memory

### 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 (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.

AUDIN - 8, avenue de la malle - 51370 Saint Brice Courcelles

Tel : 03.26.04.20.21 - Fax : 03.26.04.28.20 - Web : <http://www.audin.fr> - Email : [info@audin.fr](mailto:info@audin.fr)

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UniOP eTOP20B and eTOP21B

## Technical Data

<b>Display</b> Type Resolution Active display area Colors Backlight Brightness Dimming	eTOP20B TFT eTOP21B STN VGA, 640x480 pixel 154x116 mm (7.5" diagonal) eTOP20B 64K eTOP21B 256 CCFL, 50000 h <sup>(note 1)</sup> eTOP20B 330 cd/m <sup>2</sup> typ. eTOP21B 180 cd/m <sup>2</sup> typ. eTOP20B Yes eTOP21B No	Data acquisition and trends Recipe memory UniNet network Alarms Event list Password Hardware RTC Screen saver Buzzer Battery	Yes 32 KB Client/Server 1024 1024 Yes Yes, battery backed Yes Yes, audible feedback for touch screen 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>Memory</b> User memory User memory expansion	32 MB internal Flash Optional removable 32 MB SSFDC memory card	<b>Ratings</b> Power supply voltage Current consumption Fuse Weight	18 - 30 VDC Max 0.7 A at 24 VDC Automatic Approx 1.6 Kg
<b>Front panel</b> Touch screen Function keys System keys User LED's System LED's	Analog resistive 1 - 1 4	<b>Environmental Conditions</b> Operating temperature Storage temperature Operating and storage humidity Protection class	0 to 45 °C -20 to +70 °C 5 – 85 % RH non-condensing humidity IP65 (front panel)
<b>Interfaces</b> PC/Printer port PLC port Aux port (fieldbus and Ethernet) DX port (video input) Serial programming speed	Yes RS-232, RS-485, RS-422, 20 mA Current Loop Yes, with optional modules eTOP20B Yes eTOP21B No 9600 – 38400 bps	<b>Dimensions</b> Faceplate LxH Cutout AxB Mounting depth (type 0045) Max panel thickness	232x187 mm (9.14x7.63") 221x176 mm (8.70x6.93") 71 mm (2.80") 5 mm (0.2")
<b>Functionality</b> Vector graphics Dual driver capability Video input	Yes Yes 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

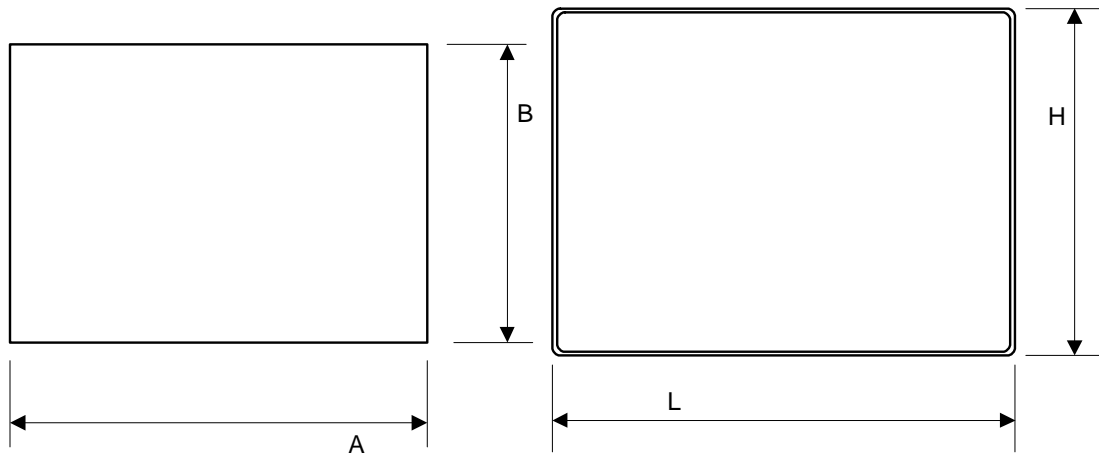


Figure 1 – Cutout and front view

### 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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www.exor-rd.com

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