UniOP eTOP20

The eTOP20 is state-of-the-art HMI devices with a touch screen interface and an 8.4” graphic display. The novel aluminum bezel offers a rugged and convenient flat design and an appealing look.

Highlights

- **8.4” diagonal graphic display**
- **TFT Color display**
- **VGA (640x480 pixels) resolution**
- **Shows up to 30 rows, 80 characters of information**
- **Resistive touch screen**
- **Connection to industrial bus systems**
- **Connection to Ethernet**
- **Compatible with HMIcontrol and local I/O subsystems**
- **Large memory size (8 MB Flash)**
- **IP65 front panel protection**
- **Programmable with UniOP Designer version 5.08**

The eTOP HMI panels are part of the eTOUCH family of touch screen products. All of the eTOUCH products support the rich common functionality of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, DeviceNet, Interbus, CANopen) and Ethernet
- Display data in numerical, text and bargraph format
- Dynamic graphic objects
- Data acquisition and trend presentation
- Analog gauges
- Recipe data storage
- Keyboard/Touch macro editor
- Alarms and historical alarm list
- Eight level password protection
- Report printing to serial printer

Technical data

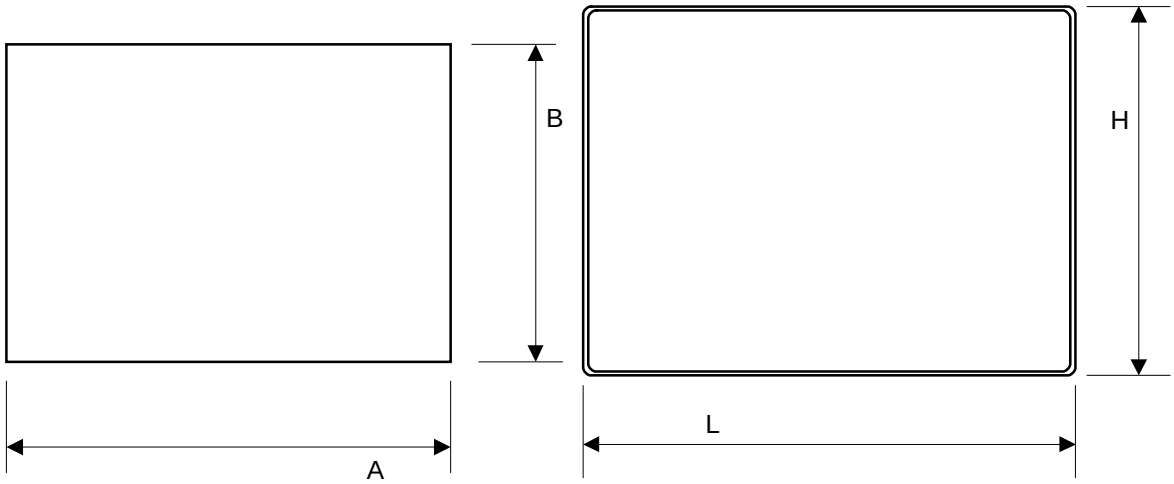
eTOP20	Display	Colors	Backlight	Lifetime
	TFT color LCD	256	CCFL	

Display	
Graphic resolution	640x480 pixels
Active display area	171x130 mm (8.4”diagonal)
Rows/columns	30x80
Character height	-
Scalable fonts	Yes
User definable characters	256
Contrast regulation	Software
Brightness regulation	Software
Memory	
User memory	8 MB SSFDC memory card
User memory expansion	-
Front panel	
Function keys	-
System keys	-
Touch screen	Resistive (guaranteed 3 M operations)
User LED’s	-
System LED’s	5
Connections	
PC/Printer port	Yes
PLC port	RS-232, RS-485, RS-422, 20 mA CL
Aux port (fieldbus and Ethernet connection)	Yes, with optional modules
External keyboard port	No
Programming speed	9600 - 38400 bps
Functionality	
Page size	-
Number of variables per page	Unlimited
Recipe memory	32 KB
UniNet network	Client/Server
Alarms	1024
Event list	1024
Alarm info page	Yes
Password	Yes
Battery	Yes
Hardware RTC	Yes, battery backed
Screen saver	Yes
Buzzer	Yes, audible feedback for touch screen

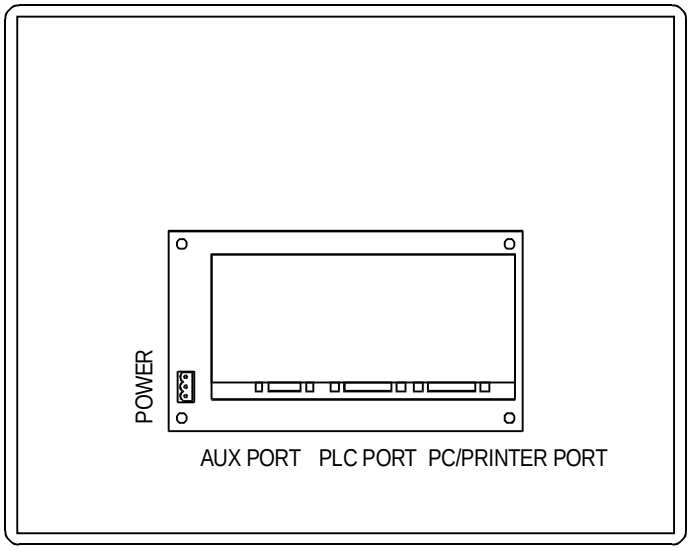
Power supply voltage	18 – 30 VDC
Max power consumption	~ 700 mA at 24 VDC
Fuse	Automatic
Weight	~ 1.85 Kg
Operating temperature	0 to 50 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 – 95 % RH non-condensing
Protection class	IP65 (front panel)

Front dimensions and cutout

Faceplate LxH	262x197 mm	10.23x7.70“
Cutout AxB	251x186 mm	9.80x7.27“
Cutout depth (version -0045)	86 mm	3.36”
Max panel thickness	5 mm	0.2”

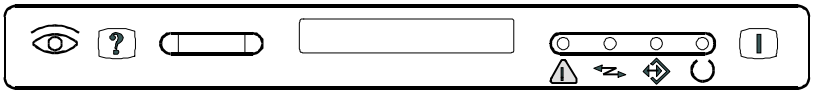


Connections



Indicators on the front panel

There are several dedicated LED indicators on the front panel of the unit. Functions are described in the table below.
A customizable legend strip is included.



Elements not listed in the table are reserved for future use.

LED	Color	Status	Meaning
	red	OFF	No hardware problem detected
		BLINK	Battery low
		ON	Hardware fault
	green	OFF	No touch cell active
		ON	While any touch cell is active (visual feedback)
	green	OFF	Hardware fault
		ON	Unit in operation
	green	BLINK	Communication error
		ON	Communication OK
	red	OFF	No alarms
		BLINK	Alarm requires acknowledgment
		ON	Alarm active