

# UniOP eTOP19CP

The eTOP19CP is a state-of-the-art HMI device featuring a high-brightness sunlight-readable 5.6" TFT color display with 1/4 VGA (320x240) resolution and resistive touchscreen. This product has been specifically designed for use under extreme illumination conditions. Support for 64K colors in the brilliant TFT display will increase the realism of the images. Connectivity is ensured by the integrated 10/100 Ethernet interface and the dual-module option. The coated electronics and the extended operating temperature range make this product ideal for applications in harsh environments.



- 5.6" TFT color display
- High brightness
- 320x240 pixel (1/4VGA) resolution, 64K colors
- Resistive touchscreen
- 64 MB user memory
- 10/100 Ethernet interface
- USB port
- Dual-module option
- Compatible with local I/O
- Extended operating temperature range
- Protective coating

## **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 150 communication drivers for industrial devices.
- Built-in 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 plug-in modules for fieldbus systems and networks.
- 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 analog gauges and graphic image formats.
- Data acquisition and trend presentation.
   Trend data can be transferred to an host computer using the Ethernet connection.
- Recipe data storage. Recipe data can be transferred to an 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 an host computer.
- 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**

Type TFT Resolution 1/4 VGA, 320x240 pixel Active display area 5.6" diagonal (121x91 mm) 5.6" diagonal (121x91 mm) 64K Backlight CCFL, 50000 h (note 1) 8 Birghtness 500 cd/m² typ.  Dimming Yes  Memory User memory Alternate User memory Alternate User memory Front panel Touch screen Function keys 1 System keys User LED's 1 System LED's 4  Event list Password Yes Yes, with battery back-up Yes, audible feedback for touch screen Punction screen Password Yes Yes, audible feedback for touch screen Punctionsumption Fuse Power supply voltage Current consumption Fuse Weight Approx 1.4 Kg Approx 1.4 Kg Battery 3 V 285 mA Lithium, non rechargeable, user replaceable, RENATA model CR2430. Replace with same component or equivalent.  Environmental Conditions Operating temperature -10 to 55 °C
Resolution Active display area 5.6" diagonal (121x91 mm) Colors 64K Backlight CCFL, 50000 h (note 1) Brightness Dimming Yes  Memory User memory Alternate User memory Alternate User memory Front panel Touch screen Frunction keys Function keys System keys User LED's Screen saver Buzzer Yes, audible feedback for touch screen Function keys Screen saver Buzzer Yes, audible feedback for touch screen Function keys Screen saver Yes Yes, audible feedback for touch screen Function keys Screen saver Yes Yes, audible feedback for touch screen Function keys Screen saver Yes Yes, audible feedback for touch screen Functions Ves Current consumption Fuse Weight Battery System LED's Analog resistive Function keys System LED's  1 System LED's  Froit panel Touch screen Analog resistive Function keys System LED's  1 System LED's  4 Finite Mark and Screen Function fouch screen Function keys Screen saver Screen saver Function keys Screen saver Function keys Screen saver Suzden keys Screen sa
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Function keys System keys User LED's System
System keys User LED's 1 System LED's 4 Environmental Conditions
System keys User LED's System LED's 4 Environmental Conditions
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System LED's 4 Environmental Conditions
Conditions
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PC/Printer port Yes, RS-232 (-10 to 45 °C with UIM05P)
Operating and storage 5 – 85 % RH non-condensing
Ethernet port 10/100 Mbit humidity
USB port Host version 1.1 (note 2) Protection class IP65 (front panel)
Aux port (fieldbus)  2, with optional modules (note 4)  IP20 (rear)
DX port (video input)  Yes (note 4)
Dimensions
Serial programming 9600 – 38400 bps Faceplate LxH 187x147 mm (7.36x5.79")
speed Cutout AxB 176x136 mm (6.93x5.35 ")
Local I/O Yes, with optional modules Mounting depth D 91 mm (3.58")
Functionality Approvals
Vector graphics Yes CE Emission
Dual driver capability Yes EN 61000-6-4
Video input Yes Immunity
Data acquisition and Yes EN 61000-6-2
trends for installation in industrial
Recipe memory  Yes. Flash memory storage  environments  Type approval contification  PINA  Type approval contification
limited only by available RINA Type approval certificate
memory (note 2) for installation in naval
UniNet network Client/Server environments (note 3)
Alarms 1024 Germanischer Lloyd Type approval certificate,
category C, EMC1 (note 3)

Note 1: the lamp lifetime is the typical value for continuous operation at 25  $^{\circ}\text{C}.$ 

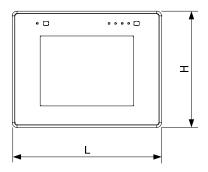
Note 2: operation of the built-in USB interface and recipe storage to flash memory require an appropriate firmware version and use of Designer 6.07 or higher.

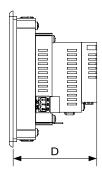
Note 3: a filter NEF 1-10 Phoenix Contact or equivalent must be installed to comply with emission limits for equipment installed in naval environments in the bridge and deck zone according to RINA/GL rules.

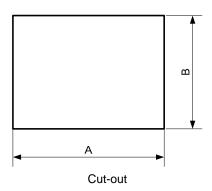
Note 4: the optional modules may be not available as RINA/GL certified components. Make sure you verify the updated specification of the products.



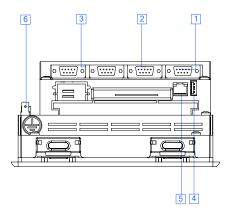
#### **Dimensions**







### **Connections**



- PC/Printer Port
- PLC Port 2
- Aux Port 1 and Aux Port 2 USB Port 3
- 5 Ethernet Port
- Power Supply



#### **Ordering Information**

eTOP19CP-0052 5.6" 1/4 VGA enhanced TFT color panel with touchscreen, dual option

modules, protective coating

PLC module, CoDeSys, CANopen interface, protective coating SCM05P-C TCM09P

CANopen interface module, protective coating

UIM05P Local I/O module, protective coating

PROT-03 Disposable protection foil for 5.6" eTOP touch panels (10 pieces)

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