Tech-note

# UniOP eTOP59C

The eTOP59C is a state-of-the-art HMI device featuring a high-brightness sunlight-readable 15” TFT color display with XVGA (1024x768) 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. The integrated 10/100 Ethernet interface makes connectivity in complex control systems much more efficient.

- 15” TFT color display
- High brightness
- XVGA (1024x768 pixel) resolution
- 64K colors
- Sunlight-readable
- Resistive touchscreen
- 10/100 Ethernet interface
- Connection to industrial bus systems (requires optional plug-in modules)
- Compatible with video input module
- 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
- Integrated Ethernet port for connection to field devices as well as programming the HMI from Designer.
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus).
- 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 an host computer using the Ethernet connection.
- Analog gauge objects
- Recipe data storage. Recipe data can be transferred to an 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 an 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

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|---|---|
| **Display** | |
| Type | TFT |
| Resolution | XVGA, 1024x768 pixel |
| Active display area | 304x228 mm (15"diagonal) |
| Colors | 64K |
| Backlight | CCFL, 50000 h (note 1) |
| Brightness | 650 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 |
| Ethernet port | 10/100 Mbit |
| Aux port (fieldbus) | 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 |

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| 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 | 18 - 30 VDC |
| Current consumption | Max 1.7 A at 24 VDC |
| Fuse | Automatic |
| Weight | Approx 4.2 Kg |
| **Environmental Conditions** | |
| Operating temperature | 0 to 45 °C |
| Storage temperature | -20 to +70 °C |
| Operating and storage humidity | 5 – 85 % RH non-condensing |
| Protection class | IP65 (front panel) |
| **Dimensions** | |
| Faceplate LxH | 392x307 mm (15.43x12.08") |
| Cutout AxB | 381x296 mm (15.00x11.65 ") |
| Mounting depth (type 0050) | 101 mm (3.98") |

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:

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| Emitted interference | EN 61000-6-4, 2001 |
| Noise immunity | EN 61000-6-2, 2001 |

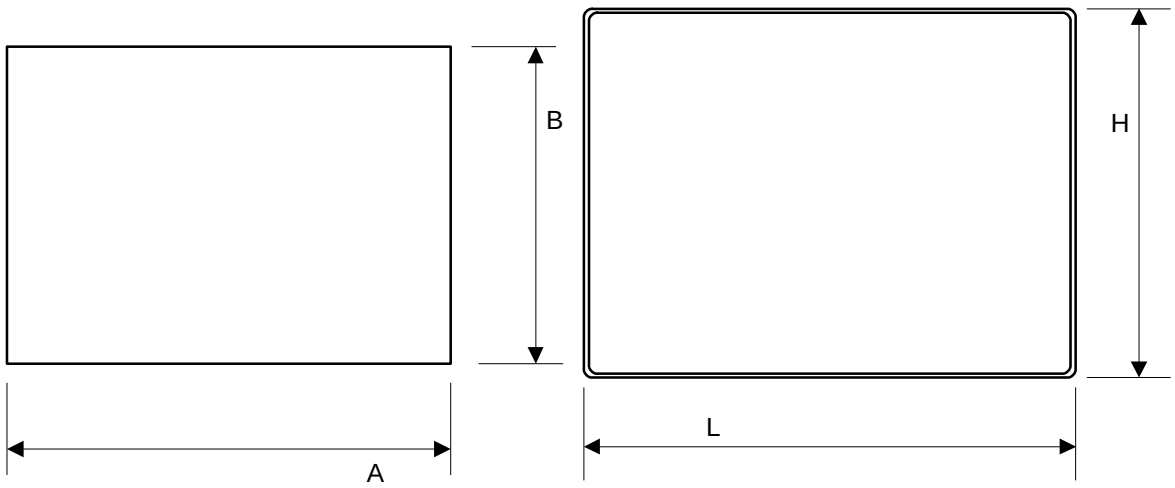


Figure 1 – Cutout and front view

## Ordering Information

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|---|---|
| eTOP59C-0050 | 15” XVGA high-brightness TFT color panel with touchscreen |
| PROT-06 | Disposable protection foil for 15" eTOP touch panels (10 pieces) |


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