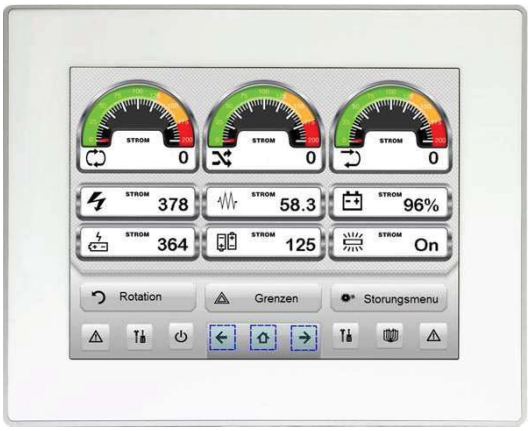
Courtesy of CMA/Flodyne/Hydradyne ▪ Motion Control ▪ Hydraulic ▪ Pneumatic ▪ Electrical ▪ Mechanical ▪ (800) 426-5480 ▪ www.cmafh.com

EXOR INTERNATIONAL

Tech-note

UniOP eTOP310

The UniOP eTOP Series 300 combines state-of-the-art features and performance with an oustanding design. They are the ideal choice for HMI applications including factory and building automation. The eTOP310 features an industry-standard 10.4” TFT display with full vector graphic capabilities. This is the ideal product for high-end HMI applications. Connections include Ethernet and USB.



- 10.4” TFT color display, LED backlight
- 640x480 pixel (VGA) resolution, 64K colors
- Advanced vector graphics
- Resistive touchscreen
- 64 MB user memory
- 10/100 Ethernet interface
- USB interface
- Connection to bus systems using optional plug-in modules
- Slim design. Mounting depth less than 50mm

Highlights

The eTOP Series 300 HMI panels are fully compatible with UniOP Designer 6 software.

- Powerful and intuitive programming with the UniOP Designer 6 software.
- Supports more than 150 communication drivers.
- Built-in Ethernet port for communication with devices, programming the HMI from Designer and retrieving data from computers.
- USB host port for the connection of flash drives. Flash drives can be used for upgrading applications and firmware.
- Optional plug-in modules for fieldbus systems and networks. Compatible with TCM and SCM modules.
- Dual-driver communication capability.
- Vector graphic capabilities including the support of multiple layers and object transparency.
- Data display in numerical, text, bargraph, analog gauges and graphic image formats. Dynamic object properties supported.
- 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. Far East languages are supported. The number of runtime languages is limited only by the available memory. All text information in the application can be exported to files 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.

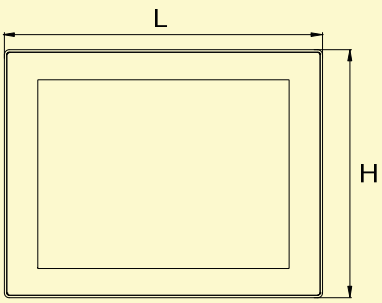
Courtesy of CMA/Flodyne/Hydradyne ▪ Motion Control ▪ Hydraulic ▪ Pneumatic ▪ Electrical ▪ Mechanical ▪ (800) 426-5480 ▪ www.cmafh.com

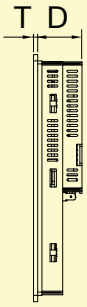
Technical Data

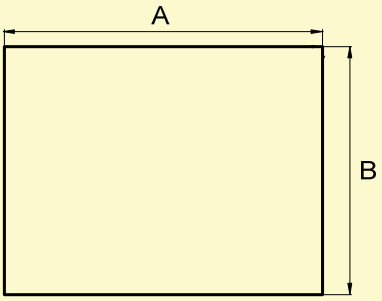
Display	
Type	TFT
Resolution	640x480, VGA
Active display area	10.4” diagonal
Colors	64K
Backlight	LED
Brightness	250 Cd/m^2 typ.
Dimming	Yes
Memory	
User memory	64 MB internal Flash
Front panel	
Touchscreen	Analog resistive
User LED indicators	1
System LED indicators	4
Interfaces	
Ethernet port	10/100 Mbit
USB port	Host interface, version 1.1
PC/Printer port	RS-232, RS-485, RS-422, software configurable
PLC port	RS-232, RS-485, RS-422, software configurable
Aux port	Yes, fieldbus and controller modules
Functionality	
Vector graphics	Yes
Object dynamics (hide/show)	Yes
TrueType fonts	Yes
Dual driver capability	Yes
Video input	No
Data acquisition and trends	Yes
Multilanguage	Yes, number of run-time languages limited only by available memory
Recipe memory	Yes. Flash memory storage limited only by available memory
UniNet network	Client/Server
Alarms	1024
Event list	1024
Password	Yes
Hardware Real Time Clock	Yes, with battery back-up
Screen saver	Yes
Buzzer	Yes, audible feedback for touchscreen
Ratings	
Power supply voltage	24 Vdc (18 to 30 Vdc)
Current consumption	0.8 A at 24 Vdc(max.)
Fuse	Automatic
Weight	Approx 2.1 Kg
Battery	Rechargeable Lithium battery, not user-replaceable
Environmental Conditions	
Operating temperature	0 to 50 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 – 85 % relative humidity, non-condensing
Protection class	IP65 (front panel) IP20 (rear)
Dimensions	
Faceplate LxH	287x232 mm
Cutout AxB	276x221 mm
Depth D+T	42mm+4mm
Approvals	
CE	Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments
UL	UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.

Courtesy of CMA/Flodyne/Hydradyne ▪ Motion Control ▪ Hydraulic ▪ Pneumatic ▪ Electrical ▪ Mechanical ▪ (800) 426-5480 ▪ www.cmafh.com

Dimensions

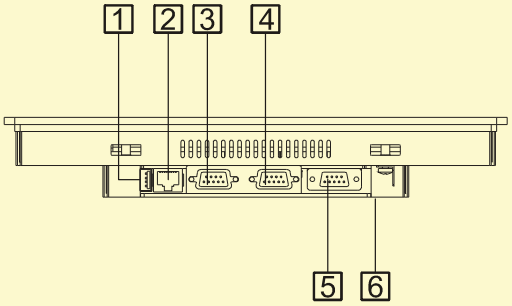






Cut-out

Connections



1 USB Port
2 Ethernet Port
3 PC/Printer Port
4 PLC Port
5 Aux Port
6 Power Supply

Courtesy of CMA/Flodyne/Hydradyne ▪ Motion Control ▪ Hydraulic ▪ Pneumatic ▪ Electrical ▪ Mechanical ▪ (800) 426-5480 ▪ www.cmafh.com

Ordering Information

Model	Part Number	Description
eTOP310	ETOP310U101	10.4” TFT color touchscreen with Ethernet and USB interfaces. White front panel.
	ETOP310U201	10.4” TFT color touchscreen with Ethernet and USB interfaces. Silver front panel.
	ETOP310U301	10.4” TFT color touchscreen with Ethernet and USB interfaces. Black front panel.
PROT-14		Disposable protection foil for 10.4” eTOP touch panels (10 pieces).
PROT-20		Disposable protection foil for 10.4” eTOP touch panels (10 pieces). UV resistant.

Copyright © 2009-2014 Exor International S.p.A. – Verona, Italy
Subject to change without notice.
The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided “as is” without warranty of any kind.
www.uniop.com