EXOR
INTERNATIONAL

Tech-note

UniOP CP02R-04

Compact HMI devices with 9 function keys/numerical keypad and display with 20 characters per line.

- Show up to 4 rows, 20 characters of information
- Monochrome LCD
- Up to 16 user programmable function keys with slide-in legends and LED indicators
- Connection to industrial bus systems and Ethernet with optional modules
- IP65 front panel protection
- Version with extended operating temperature available

Highlights

The CP02 HMI panels are part of the UniOP family of entry-level products. They support the rich common functionality 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
- Display dynamic data in numerical and text formats
- 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.

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Technical Data

Display	
Type	LCD
Rows/columns	4/20
Character height	5 mm
User definable characters	8
Backlight	LED 100K hour typ.
Contrast regulation	software

Memory	
User memory	512 KB
User memory expansion	512 KB

Front panel	
Function keys	16 with slide-in legends in common with numerical keypad
System keys	7
User LED's	16
System LED's	1

Interfaces	
PC/Printer port	Yes
PLC port	RS-232, RS-485, RS-422, 20 mA Current Loop
Aux port (fieldbus and Ethernet)	Yes, with optional modules
Serial programming speed	9600 – 38400 bps

Functionality	
Graphics	-
Dual driver capability	Yes
Recipe memory	16 KB

UniNet network	Client/Server
Alarms	1024
Event list	256
Password	Yes
Hardware RTC	Yes, battery backed
Screen saver	-
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	0.3 A at 24 VDC
Fuse	2A T
Weight	1.1 Kg

Environmental Conditions	
Operating temperature	0 to 50 °C
Storage temperature	-20 to 70 °C
Operating and st\orage humidity	5 – 85 % RH non-condensing
Protection class	IP65 (front panel)

Dimensions	
Faceplate LxH	138x186 mm (5.43x7.32")
Cutout AxB	117x176 mm (4.61x6.50")
Cutout depth	74 mm (2.92")
Max panel thickness	5 mm (0.2")

The product is designed for installation in industrial environments in compliance with the regulations:
Emitted interference   EN 61000-6-4
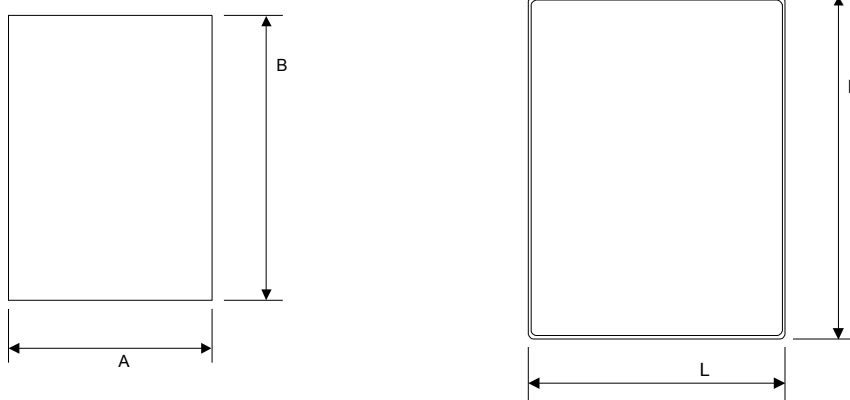Noise immunity   EN 61000-6-2

Figure 1 – Cutout and front view

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Ordering Information

CP02R-04-0045	Entry-level HMI with LCD display