UniOP CP02F-02, CP02R-04

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

- Show up to 2 or 4 rows, 20 characters of information
- Choice of Vacuum Fluorescent or 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

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

Display	
Type	CP02F-02 VFD
	CP02R-04 LCD
Rows/columns	CP02F-02 2/20
	CP02R-04 4/20
Character height	5 mm
User definable	CP02F-02 -
characters	CP02R-04 8
Backlight	CP02F-02 -
	CP02R-04 LED 100K hour typ.
Contrast regulation	CP02F-02 -
	CP02R-04 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	-0045 0 to 50 °C
	-00A8 -30 to 60 °C [note 1]
Storage temperature	-0045 -20 to 70 °C
	-00A8 -40 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 (type 0045 and 00A8)	74 mm (2.92")
Max panel thickness	5 mm (0.2")

Note 1: the operating temperature of the version –00A8 is subject to the following restrictions:
a) the panel can be operated in the temperature range -30°C to -20°C without damages but the display response may be very slow.
b) regular display response requires a temperature of -20°C or higher
c) powering the product for a period of at least 25 minutes at an enviroment temperature of -30°C will ensure that the internal temperature will increase to -20°C and then proper operation of the display will be ensured.
Important note:
operating at extreme temperatures it is very important to ensure that the Relative Humidity ratings are not exceeded.

The product is designed for installation in industrial environments in compliance with the regulations:
Emitted interference   EN 61000-6-4, 2001
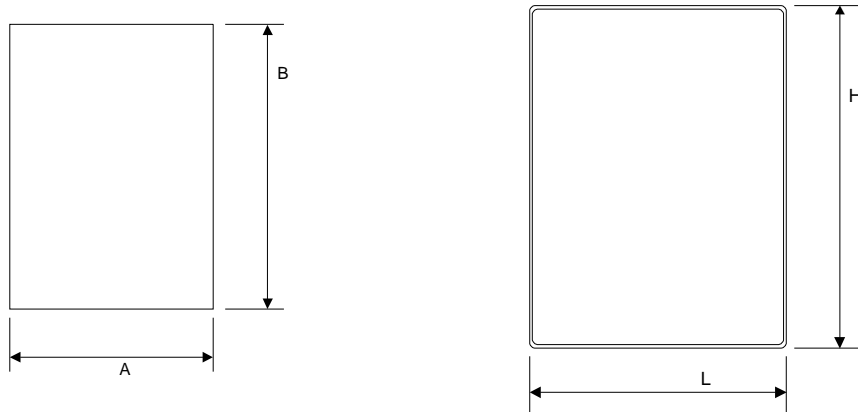Noise immunity   EN 61000-6-2, 2001

Figure 1 – Cutout and front view

Ordering Information

CP02F-02-0045	Entry-level HMI with VFD display
CP02R-04-0045	Entry-level HMI with LCD display
CP02R-04-00A8	Entry-level HMI with LCD display. Extended operating temperature range.

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