

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 li and event information can be

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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

TypeCP02F-02 VFDAlarms1024CP02R-04 LCDEvent list256Rows/columnsCP02F-02 2/20PasswordYesCP02R-04 4/20Hardware RTCYes, battery backedCharacter height5 mmScreen saver-User definableCP02F-02 -Battery3 V 270 mA Lithium, noncharactersCP02R-04 8rechargeable, userBacklightCP02F-02 -replaceable, model CR2430.				
CP02R-04 LCDEvent list256Rows/columnsCP02F-02 2/20PasswordYesCP02R-04 4/20Hardware RTCYes, battery backedCharacter height5 mmScreen saver-User definableCP02F-02 -Battery3 V 270 mA Lithium, noncharactersCP02R-04 8rechargeable, userBacklightCP02F-02 -replaceable, model CR2430.	Display		UniNet network	Client/Server
Rows/columnsCP02F-02 2/20 CP02R-04 4/20Password Hardware RTC Screen saver BatteryYes yes, battery backedCharacter height5 mm CP02F-02 - CharactersScreen saver Battery-User definableCP02F-02 - CP02R-04 8 BacklightBattery3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430.	Туре	CP02F-02 VFD	Alarms	
CP02R-04 4/20Hardware RTCYes, battery backedCharacter height5 mmScreen saver-User definableCP02F-02 -Battery3 V 270 mA Lithium, noncharactersCP02R-04 8rechargeable, userBacklightCP02F-02 -replaceable, model CR2430.		CP02R-04 LCD	Event list	256
Character height User definable5 mm CP02F-02 -Screen saver Battery-characters BacklightCP02R-04 8 CP02F-023 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430.	Rows/columns	CP02F-02 2/20	Password	Yes
User definableCP02F-02 -Battery3 V 270 mA Lithium, non rechargeable, usercharactersCP02R-04 8rechargeable, userBacklightCP02F-02 -replaceable, model CR2430.		CP02R-04 4/20	Hardware RTC	Yes, battery backed
charactersCP02R-04 8rechargeable, userBacklightCP02F-02 -replaceable, model CR2430.	Character height	5 mm	Screen saver	-
Backlight CP02F-02 - replaceable, model CR2430.	User definable	CP02F-02 -	Battery	3 V 270 mA Lithium, non
Backlight CP02F-02 - replaceable, model CR2430.	characters	CP02R-04 8		
	Backlight	CP02F-02 -		replaceable, model CR2430.
CP02R-04 LED 100K hour typ. Replace with same component	C C	CP02R-04 LED 100K hour typ.		Replace with same component
Contrast regulation CP02F-02 - or equivalent compatible with	Contrast regulation	CP02F-02 -		or equivalent compatible with
CP02R-04 software the operating temperature of	C C	CP02R-04 software		the operating temperature of
the product.				the product.
Memory Memory	Memory			
User memory 512 KB Ratings	User memory	512 KB	Ratings	
User memory 512 KB Power supply voltage 18 - 30 VDC	User memory	512 KB	Power supply voltage	18 - 30 VDC
expansion Current consumption 0.3 A at 24 VDC	expansion		Current consumption	0.3 A at 24 VDC
Fuse 2A T			Fuse	2A T
Front panel Weight 1.1 Kg	Front panel		Weight	1.1 Kg
Function keys 16 with slide-in legends in	Function keys	16 with slide-in legends in		
common with numerical Environmental	-	common with numerical	Environmental	
keypad Conditions		keypad	Conditions	
System keys 7 Operating temperature -0045 0 to 50 °C	System keys	7	Operating temperature	-0045 0 to 50 °C
User LED's 16 -00A8 -30 to 60 °C ^(note 1)	User LED's	16		-00A8 -30 to 60 °C (note 1)
System LED's 1 Storage temperature -0045 -20 to 70 °C	System LED's	1	Storage temperature	
-00A8 -40 to 70 °C			c .	-00A8 -40 to 70 °C
Interfaces Operating and st\orage 5 – 85 % RH non-condensing	Interfaces		Operating and st\orage	
PC/Printer port Yes humidity	PC/Printer port			<u> </u>
PLC port RS-232, RS-485, RS-422, 20 Protection class IP65 (front panel)	PLC port	RS-232, RS-485, RS-422, 20		IP65 (front panel)
mA Current Loop		mA Current Loop		
Aux port (fieldbus and Yes, with optional modules Dimensions	Aux port (fieldbus and	Yes, with optional modules	Dimensions	
Ethernet) Faceplate LxH 138x186 mm (5.43x7.32")	Ethernet)		Faceplate LxH	138x186 mm (5.43x7.32")
Serial programming 9600 – 38400 bps Cutout AxB 117x176 mm (4.61x6.50")	Serial programming	9600 – 38400 bps	•	
speed Cutout depth (type 74 mm (2.92")	speed			
0045 and 0048)				(4,1111) (2.92)
Functionality Max panel thickness 5 mm (0.2")	Functionality			5 mm (0.2")
Graphics -		-	Max parter unexiless	5 mm (0.2)
Dual driver capability Yes		Yes		
Recipe memory 16 KB	Recipe memory	16 KB		

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 environment 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 interferenceEN 61000-6-4, 2001Noise immunityEN 61000-6-2, 2001







Figure 1 – Cutout and front view

Ordering Information

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

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