

UniOP CP01R-04, CP05R-04 and CP01F-02

Compact HMI devices with 5 function keys, numerical keypad and 20 characters display.

Highlights

- Shows up to 2 or 4 rows, 20 characters of information
- Choice of Vacuum Fluorescent or Monochrome LCD
- 5 user programmable function keys with slide-in legends
- 5 user programmable LED indicators
- Multilanguage project capability
- Connection to industrial bus systems and Ethernet with optional modules
- IP65 front panel protection
- Version with extended operating temperature available



The CP HMI panels are compact low cost products yet extremely rich in functionality. The products support the rich common functionality of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer software
- Dual-driver communication capability (only CP01)
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, DeviceNet, CANopen, Interbus) and Ethernet
- Display data in numerical, text and bargraph format
- Recipe data storage
- Keyboard macro editor
- Alarms and historical alarm list
- Eight level password protection

Technical Data

The product is available in three versions.

	Display	Colors	Backlight	Lifetime
CP01R-04	LCD	-	LED	100.000 hours
CP05R-04	LCD	-	LED	100.000 hours
CP01F-02	VFD	-	-	

Models	CP01F-02	CP01R-04	CP05R-04
Display			
Rows/columns	2/20		4/20
Character height		5 mm	
User definable characters	-		8
Contrast regulation	-		Software
Memory			
User memory		512 KB	
User memory expansion		512 KB	
Front panel			
Function keys		5	
System keys		19	
Touch screen		-	
User LED's		5	
System LED's		1	
Connections			
PC/Printer port		Yes	-
PLC port		RS-232, RS-422, RS-485, CL 20 mA	
Aux port (fieldbus and Ethernet connection)		Yes, requires optional module	
External keyboard port		No	
Programming speed	9600 ÷ 38400 bps		9600 bps
Functionality			
Number of variables per page		Unlimited	
Dual-driver capability	Yes		No
Recipe memory	16 KB		-
Data acquisition and trends		No	
UniNet network	Client/Server		Client
Alarms	1024		256
Event list	256		-
Alarm info page		Yes	
Password		Yes	



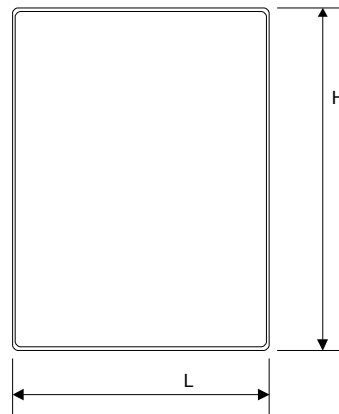
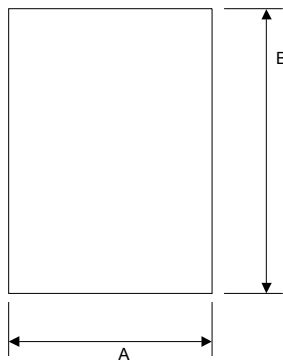
Battery	CR2430 (3V 270mA Lithium), non rechargeable, user replaceable. Replace with same type or equivalent compatible with the operating temperature of the product		-
Hardware RTC	Yes	No	-
Screen saver		No	
Buzzer		No	
Power supply voltage	18 ÷ 30 VDC		
Max power consumption	0.300 A at 24 VDC		
Fuse	2 A (user replaceable)		
Weight	~ 1.1 Kg		
Operating temperature		0 ÷ +50 °C	
	-0045		
	-00A6	-	0 ÷ +60 °C
	-00A7	-	-20 ÷ +60 °C
Storage temperature		-20 ÷ +70 °C	
Operating and storage humidity	5 ÷ 85 % RH non-condensing		
Protection class	IP65 (front panel)		

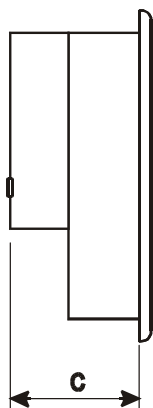
The products are designed for installation in an industrial environment in compliance with the regulations:

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

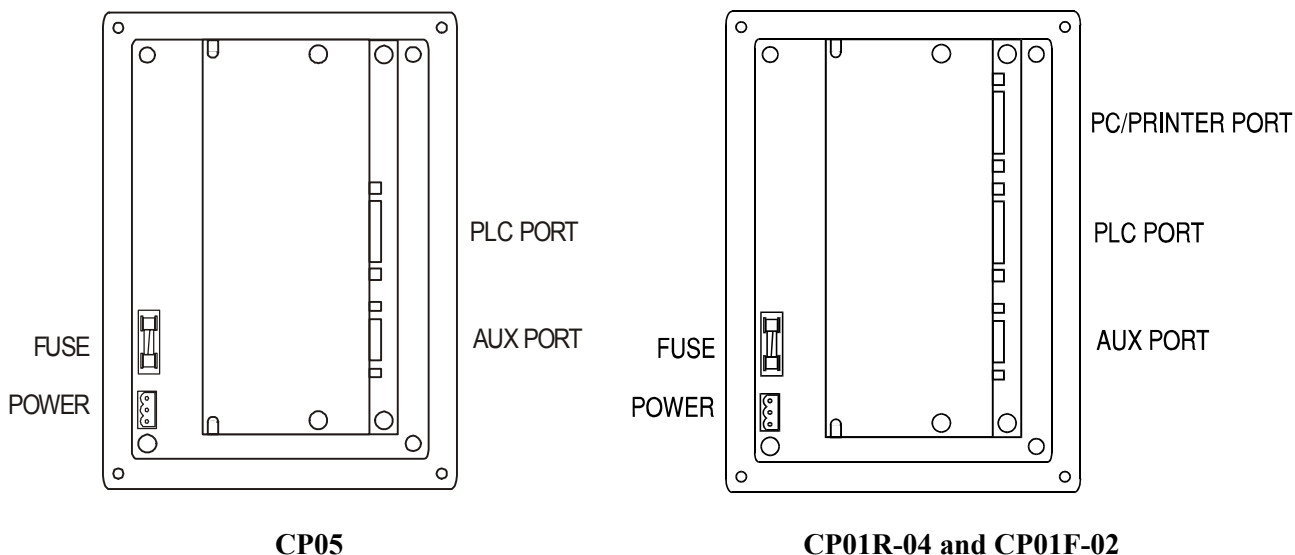
Front Dimensions and Cutout

Faceplate LxH	138x186 mm	5.43x7.32 "
Cutout AxB	117x176 mm	4.61x6.50 "
Cutout depth C		
	-0045, -00A7	74 mm 2.91 "
	-0050	82 mm 3.20 "
Max panel thickness	5 mm	0.20"





Connections



The product is compatible with all standard TCM and SCM modules.
To access the slot for the modules, remove the rear cover of the product

The backup battery is accessible for replacement after removing the main module of the unit.

The standard programming cable CA114 can be used with CP01 units; the same cable can be used with CP05 models if a 15-pin female-female gender changer is applied to the PLC Port.

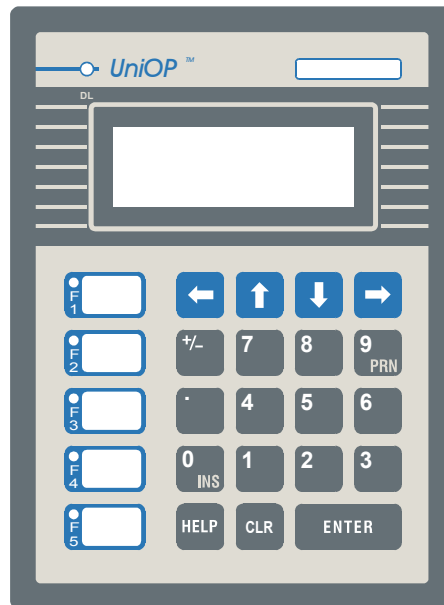
Indicators and keypad

There is one dedicated LED indicator on the front panel of the unit. Function is described in the table below.

A customizable legend strip is included.

Elements not listed in this chapter are reserved for future use.

LED	Color	Status	Meaning
DL	green	OFF	No keys are pressed and no errors
		BLINK	Communication error
		ON	While any key is pressed (visual feedback)
		BLINK	Battery low
		ON	Hardware fault



The RDA mapping of all keys and LEDs is standard.

Function keys associated to keys 1 to 5 have a slide-in legend. Legend strips in laser printable form are available as accessories.

Ordering Information

CP01F-02-0045	Compact HMI with 2x20 VFD display
CP01R-04-0045	Compact HMI with 4x20 LCD display
CP01R-04-00A6	Compact HMI with 4x20 LCD display, extended operating temperature range
CP01R-04-00A7	Compact HMI with 4x20 LCD display, extended operating temperature range
CP05R-04-0045	Compact low-cost HMI with 4x20 LCD display
R-PRINT2299	Printable legends (5 A4 foils, 16 sets of legends per foil)

Tn197

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