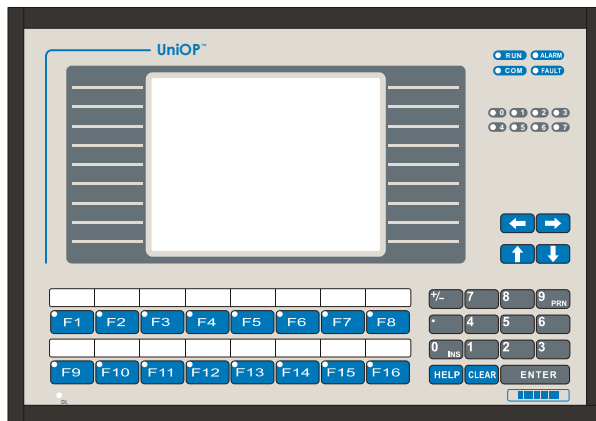# EXOR INTERNATIONAL

Tech-note

UniOP MKDR-16

Compact HMI devices with 16 function keys, numerical keypad and 4x40 characters display.

- Monochrome LCD Graphic display ¼ VGA with 5,6" diagonal size
- 16 user programmable function keys with slide-in legends
- 24 user programmable LED indicators
- Multilanguage project capability
- Connection to industrial bus systems and Ethernet with optional modules
- IP65 front panel protection

Highlights

The HMI panels with ¼ VGA display and keyboard integrated. The products support the rich common functionality of the UniOP operator panels:
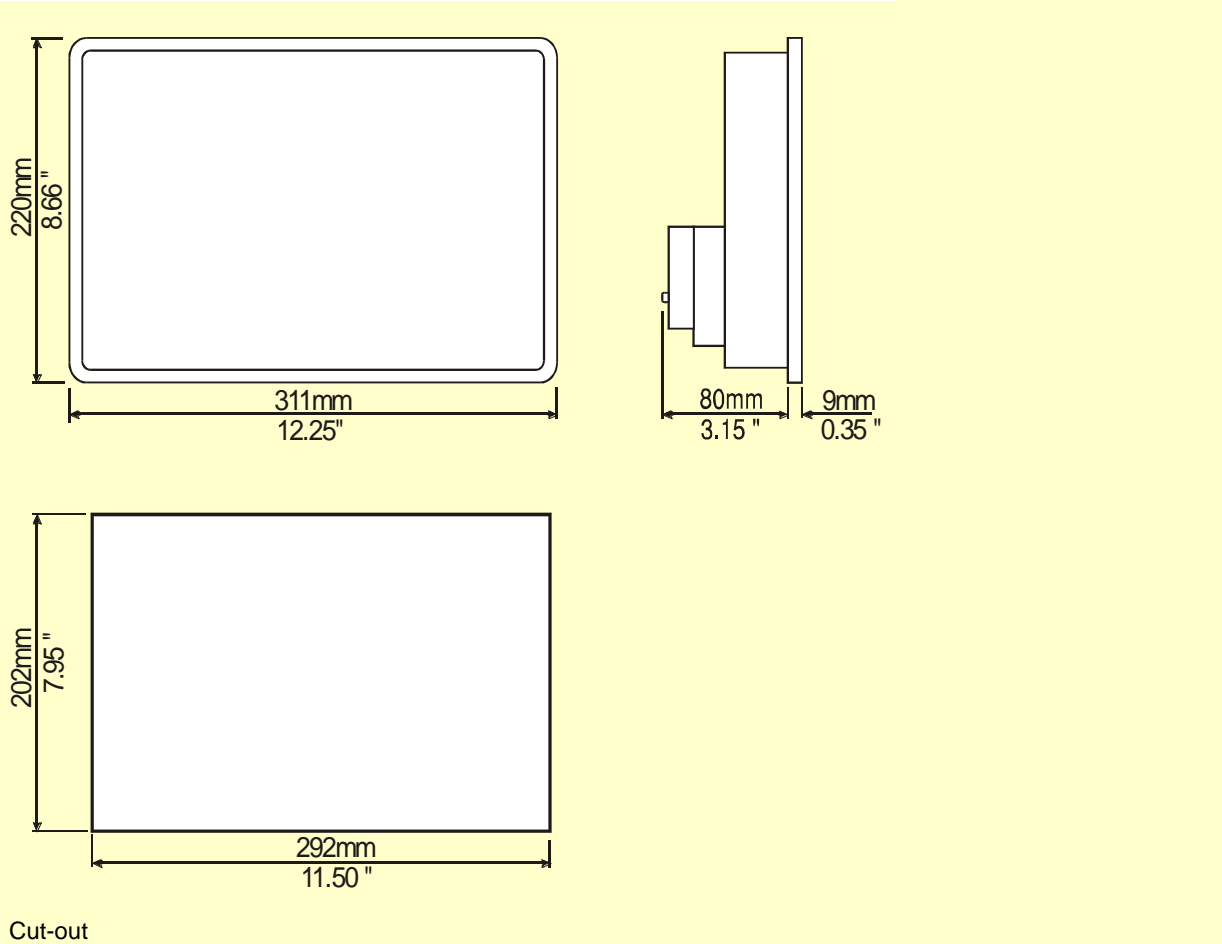
- Powerful and intuitive programming with the UniOP Designer software
- Dual-driver communication capability
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, DeviceNet, CANopen, Interbus) and Ethernet
- Display data in numerical, text and bargraph format
- Recipe data storage
- Keyboard macro editor
- Alarms and historical alarm list
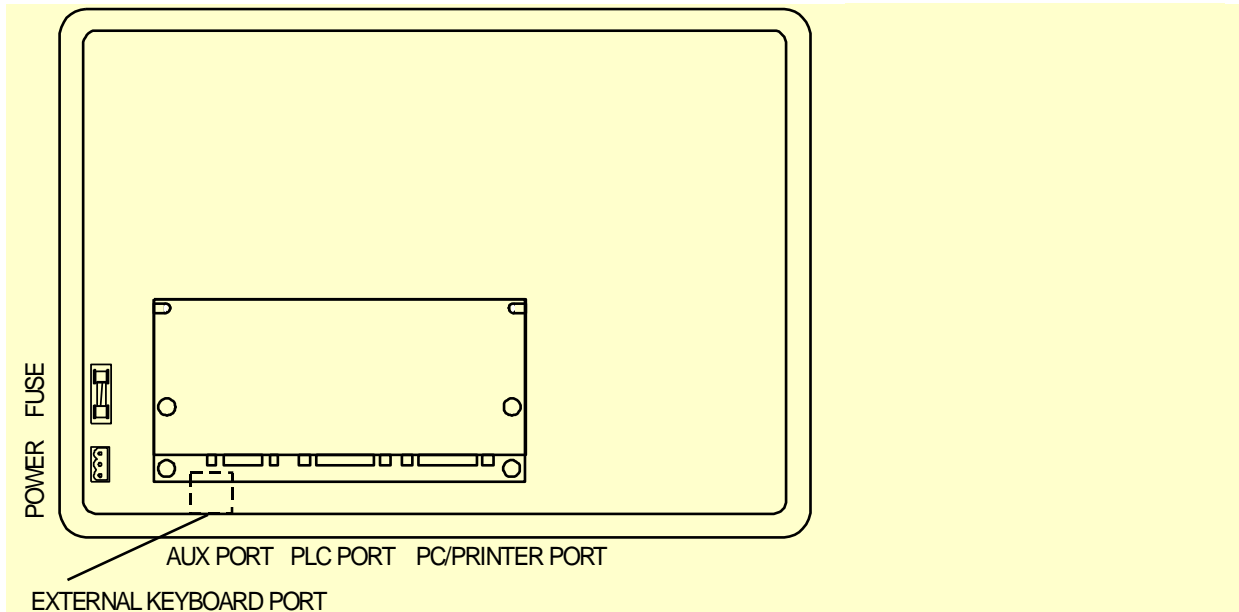- Eight level password protection

Technical Data

Display	
Rows/columns	16rows - 40 characters (320x240 pixel)
Display dimensions	121x91 mm / 5,6"
User definable characters	256
Contrast regulation	Software

Memory	
User memory	512 KB
User memory expansion	512 KB

Front panel	
Function keys	16
System keys	19
Touch screen	-
User LED's	24
System LED's	5

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	Yes
Programming speed	9600 ÷ 38400 bps

Functionality	
Number of variables per page	Unlimited
Dual-driver capability	Yes
Recipe memory	32 KB
Recipe Back-up	Yes

Data acquisition and trends	-
UniNet network	Client/Server
Alarms	1024
Event list	1024
Alarm info page	Yes
Password	Yes
Multilanguage	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
Screen saver	Yes
Buzzer	-
Power supply voltage	18 ÷ 30 VDC
Max power consumption	0.5 A at 24 VDC
Fuse	2 A (user replaceable)
Weight	~ 1.9 Kg
Operating temperature	0 ÷ +50 °C
Storage temperature	-20 ÷ +70 °C
Operating and storage humidity	5 ÷ 85 % RH non-condensing
Protection class	IP65 (front panel)

Approvals	
CE	Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments

Front dimensions and cutout

		311x220 mm	12.25x8.66 "
Faceplate LxH		311x220 mm	12.25x8.66 "
Cutout AxB		292x202 mm	11.50x7.95 "
Cutout depth C	-0045	80 mm	3.15 "
Max panel thickness		9 mm	0.35"

Cut-out

Connections

POWER FUSE

AUX PORT   PLC PORT   PC/PRINTER PORT

EXTERNAL KEYBOARD PORT

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 like CA2 or CA114 can be used.

Ordering Information

MKDR-06-0045	Integrated HMI with 16x40 LCD display
R-PRINT2299	Printable legends (5 A4 foils, 16 sets of legends per foil)