UniOP MKDG-05

The MKDG-05 is a compact and low cost operator panel with a large graphic display. The 240x64 graphic monochrome display can show plenty of information in a very effective mechanical size.

Highlights

- **8 line x 40 character graphic monochrome display**
- **Downloadable fonts**
- **Scalable text**
- **20 function keys with slide-in legends**
- **25 user programmable LED indicators**
- **Multilanguage project capability**
- **Connection to bus systems**

The MKDG-05 HMI panel is part of the entry-level range of UniOP products, offering a wide display and numerous function keys in an attractively compact mechanical format.
The MKDG-05 supports the rich common functionality of the UniOP operator panels:

- Powerful and intuitive programming with the UniOP Designer software
- Support of more than 130 communication drivers for industrial devices
- Optional modules for fieldbus systems (Profibus DP, DeviceNet, Interbus, CANopen) and Ethernet
- Display data in numerical, text and bargraph format
- Dynamic graphic objects
- Recipe data storage
- Keyboard macro editor for free programming of keyboard functionality
- Alarms and historical alarm list
- Eight level password protection
- Report printing to serial printer

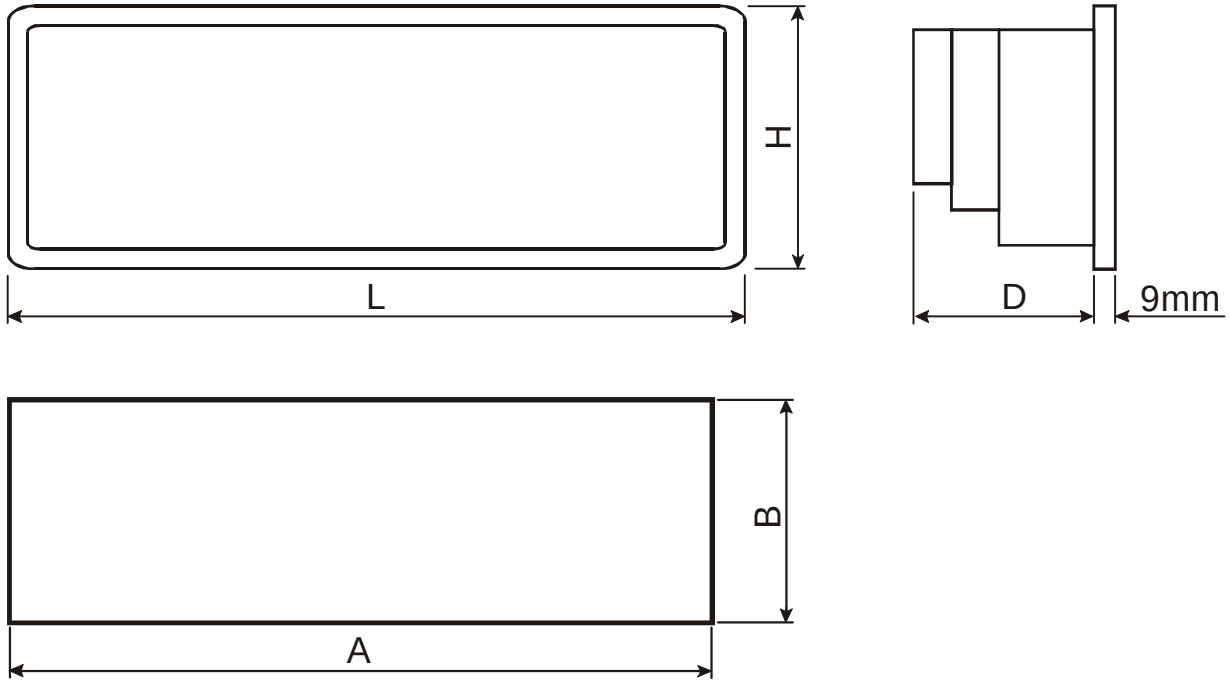
Technical Data

Display	
Graphic resolution	240x64
Active display area	127x34 mm
Rows/columns	8/40
Character height	-
Scalable fonts	Yes
User definable characters	255
Contrast regulation	Software
Memory	
User memory	512 KB (64 reserved to the protocol)
User memory expansion	512 KB
Front panel	
Function keys	20 with slide-in legends
System keys	21
Touch screen	No
User LED's	25
System LED's	5
Connections	
PC/Printer port	Yes
PLC port	RS-232, RS-485, RS-422, 20 mA CL
Aux port (fieldbus and Ethernet connection)	Yes, with optional modules
External keyboard port	No
Programming speed	9600 - 38400 bps
Functionality	
Number of variables per page	Unlimited
Recipe memory	16 KB
Data acquisition and trends	Yes
UniNet network	Client/Server
Alarms	1024
Event list	1024
Alarm info page	Yes
Password	Yes
Battery	Yes
Hardware RTC	Yes, battery backed
Screen saver	Yes
Buzzer	No
Power supply voltage	18-30 VDC
Max power consumption	~ 400 mA at 24 VDC
Fuse	Automatic
Weight	~ 1.8 Kg
Operating temperature	0 to 50 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 - 95 % RH non-condensing
Protection class	IP65 (front panel)

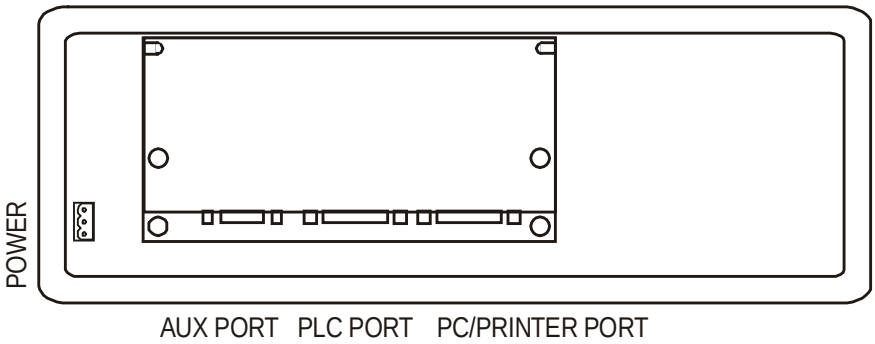
The product is designed for installation in an industrial environment in compliance with the regulations:
Emitted interference EN 50081-2, 1993
Noise immunity EN 50082-2, 1994

Front Dimensions and Cutout

Faceplate LxH	311x111 mm	12.25x2.37”
Cutout AxB	292x92 mm	11.50x3.62”
Cutout depth D (version -0045)	80 mm	3.15”
Max panel thickness	5 mm	0.2”



Connections

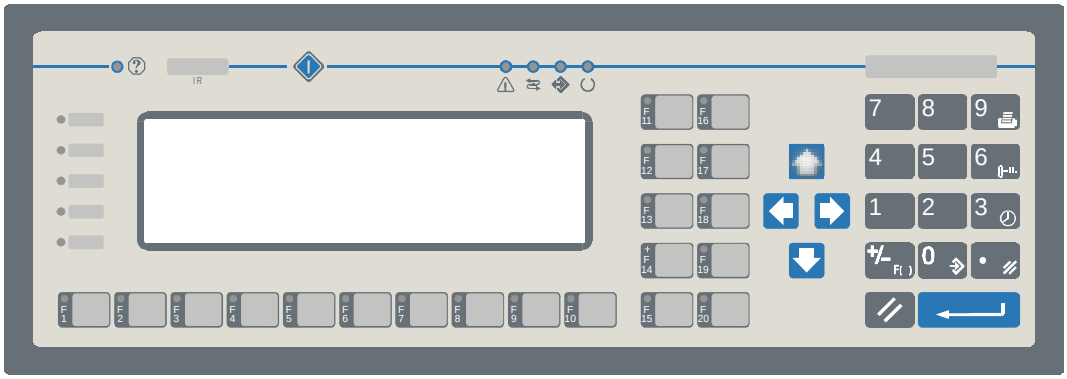


Indicators and keypad

There are several dedicated LED indicators on the front panel of the unit. Functions are 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
	red	OFF	No hardware problem detected
		BLINK	Battery low
		ON	Hardware fault
	green	OFF	No touch cell active
		ON	While any touch cell is active (visual feedback)
	green	OFF	Hardware fault
		ON	Unit in operation
	green	BLINK	Communication error
		ON	Communication OK
	red	OFF	No alarms
		BLINK	Alarm requires acknowledgment
		ON	Alarm active
	green		May be user controlled as LED number 65 using the Macro Editor. Turns ON when recipe/event backup is being performed.



The RDA mapping of LED indicators is standard.
The RDA mapping of all keys is standard.

Ordering Information

MKDG-05-0045	Entry-level HMI with 240x64 graphic LCD display and 20 function keys

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