

UniPlus - Industrial PLC Workstation

UniOP™ - Universal Operator Panel Family



- 2 Line or 4 Line x 20 Character LCD Display
- Programmable Function Keys with LEDs
- Keyboard Macro Editor
- Small Size for Tight Space Requirements
- Links Directly to PLC Programming Port
- NEMA 4/12 Compliant Enclosure

The MD01R-02, MD03R-02 and MD03R-04 fulfill the need for a powerful yet cost effective operator interface system in areas where space and cost must be small. Displays are available with either a two line or four line backlit LCD display. Each line can contain up to 20 characters. Each page can contain up to 32 lines, which can be accessed by scrolling with the arrow keys. Brightness control is provided to adjust the display for easy viewing under nearly any condition.

Display Variables

PLC internal variables can be shown on any of the many display pages (limited only by memory size). The number of variables that can be viewed at one time is limited only by the display size. UniOP also provides scaling (linear conversion) of the displayed data. The final value can then be shown in several useful formats including decimal, bit, hexadecimal, floating point, and string. Data entry with valid range verification is also available for each data type.

Data Entry

The integral keypad on the MD01R-02 offers 11 programmable keys and 4 user LEDs to the display panel. The integral keypads on the MD03R-02 and MD03R-04 offer 19 configurable keys and 9 user LEDs to the display panel. Slide-in legends make it easy to customize and document the operation of the keys and user LEDs. Data entry can be achieved with the up and down arrow keys on the MD01R-02 or by using the numeric keypad on the MD03R-02 and the MD03R-04.

Security

An eight-level password protection scheme protects critical system features from undesired access.

Alarms

The MD01R-02, MD03R-02 and MD03R-04 can monitor and display up to 256 alarms. Attributes and unique messages can be defined for each alarm. Operator acknowledgment can also be required.

Adaptability

Custom display screens are developed using the UniOP Designer™ for Windows™ programming software. Your completed project file can be downloaded to the display through the serial port and permanently stored in a Flash EPROM.

Keyboard Macro Editor

A feature that allows you to configure your UniOP keys to do a variety of functions locally in the UniOP. For example: turning pages, setting attributes, setting LEDs, writing to the PLC, going to the alarm list, uploading or downloading a recipe set and many more. This can save many hours of ladder logic programming.

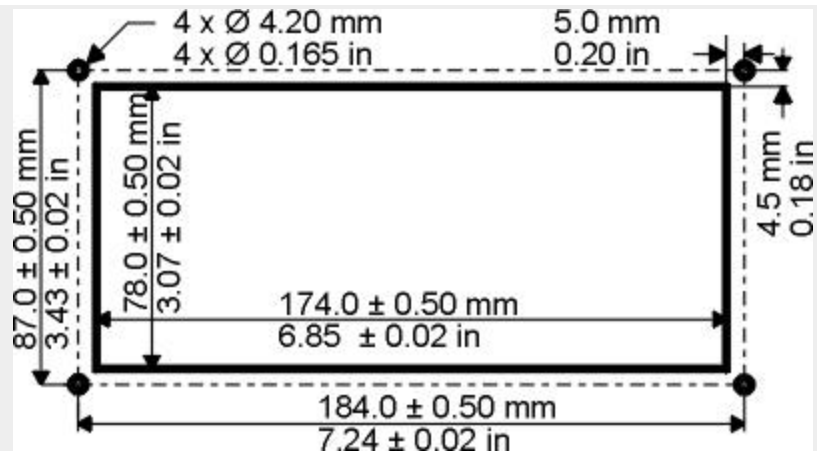
Important Features

- NEMA 4/12 compliant enclosure
- CE approved
- Keyboard Macro Editor
- One RS-232 / RS-422 / RS-485 / 20mA current loop serial port, speeds up to 38,400 baud for direct PLC connection and PC communication
- One auxiliary port for high speed bus network communications
- Configurable function keys with LEDs and slide in legends
- Cursor, Clear, and Enter keys
- 128 KB internal memory standard Flash EPROM
- Unlimited number of variables per page
- 256 prioritized alarms
- Eight-level password protection
- Displays ASCII standard character set
- Small size for tight space requirements

Specifications

Physical Dimensions	
Cutout Width and Height	See drawing below
Cutout Depth	79 mm (3.11")
Front Panel Thickness (max.)	8 mm (0.31")
Faceplate height	98 mm (3.85")
Faceplate Width	195 mm (7.68")
Weight	0.9 kg (2.0 lb)
Environment	
Operating Temperature	0 to 50 °C (32 to 122 °F)
Humidity	0 to 95% RH (non-condensing)
Power Requirements	250 mA maximum, 24 VDC
Display	
Type	Liquid Crystal
Size	2 or 4 lines x 20 characters/line
Character Height	5.15 mm (13/64 inch)
Keypad	
Technology	Tactile Feedback (tested 5M times)
Warranty	
All products are warranted for one year against defects in material and workmanship.	
Ordering Information	
Description	Part No.
LCD, 2 x 20, 11 programmable keys	MD01R-02
LCD, 2 x 20, 19 programmable keys	MD03R-02
LCD, 4 x 20, 19 programmable keys	MD03R-04

Panel Cutout Dimensions



Specifications subject to change without notice