

# UniPlus - Industrial PLC Workstation

## UniOP™ - Universal Operator Panel Family



- 2 or 4 Line x 20 Character LCD Display
- 4 Programmable Function Keys with LEDs
- Graphic Display on MD00G
- Keyboard Macro Editor
- Small Size for Tight Space Requirements
- Links Directly to PLC Programming Port
- NEMA 4/12 Compliant Enclosure

The MD00R-02, MD00R-04 and MD00G-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 two or four lines in a backlit LCD. The MD00G-04 allows graphic capabilities with out Designer for Windows software package. 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 keypads on the MD00R-02, MD00R-04 and MD00G-04 offer 4 function keys and 4 user LEDs, as well as four arrow keys, a CLEAR key and an ENTER key. The arrow keys can be used to increment or decrement any data field. Slide-in legends make it easy to customize and document the operation of the function keys.

### Security

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

### Alarms

The MD00R-02 and MD00R-04 can monitor and display up to 256 alarms. Attributes and unique messages for each alarm can be defined. 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 auxiliary port for high speed bus network communications
- 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
- 4 configurable function keys with LEDs and slide in legends
- 128 KB internal memory standard Flash EPROM
- Unlimited number of variables per page
- 256 prioritized alarms
- Eight-level password protection
- Cursor, Clear, and Enter keys
- Displays ASCII standard character set

## Specifications

### Physical Dimensions

<b>Cutout Width and Height</b>	See drawing below
<b>Cutout Depth</b>	64 mm (2.52")
<b>Front Panel Thickness (max.)</b>	5 mm (0.20")
<b>Faceplate height</b>	109 mm (4.29")
<b>Faceplate Width</b>	149 mm (5.87")
<b>Weight</b>	0.9 kg (2.0 lb)

### Environment

<b>Operating Temperature</b>	0 to 50 °C (32 to 122 °F)
<b>Humidity</b>	0 to 95% RH (non-condensing)
<b>Power Requirements</b>	250 mA maximum, 24 VDC

### Display

<b>Type</b>	Liquid Crystal
<b>Size</b>	2 or 4 lines x 20 characters/line
<b>Character Height</b>	5.15 mm (13/64 inch)

### Keypad

<b>Technology</b>	Tactile Feedback (tested 5M times)
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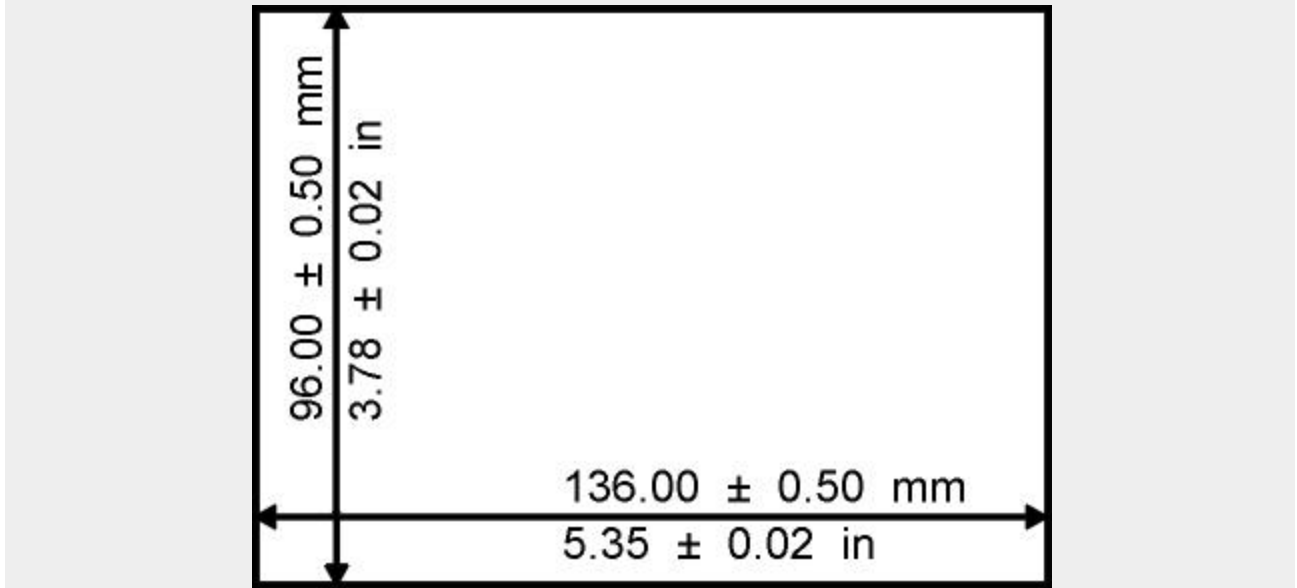
### Warranty

All products are warranted for one year against defects in material and workmanship.

### Ordering Information

<b>Description</b>	<b>Part No.</b>
LCD, 2 x 20	MD00R-02
LCD, 4 x 20	MD00R-04
LCD, 4 x 20 (graphic)	MD00G-04

## Panel Cutout Dimensions



*Specifications subject to change without notice*