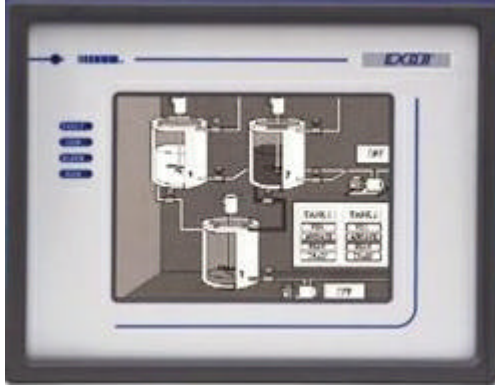


# UniPlus - Industrial PLC Workstation

## UniOP™ - Universal Operator Panel Family



- 16 line x 40 character Color, LCD or EL
- Full-Graphic 320x240 pixels
- Touchscreen 16x40 matrix
- Keyboard Macro Editor
- Recipe capabilities
- UniNET Networking capabilities
- User-definable characters
- Links directly to PLC programming port
- NEMA 4/12 compliant enclosure

**The ECT-16, ELT-16 and ERT-16 fulfill the need for a powerful yet cost effective operator interface system.**

Displays are available with sixteen lines in backlit LCD, 16 passive color or EL. These pixel addressable displays allow graphic capabilities with our Designer for Windows software package. Each page can contain 16 lines. Each line can contain up to 40 characters. 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. 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 bargraph, date, time, decimal, bit, hexadecimal, floating point, and string. Data entry with valid range verification is also available for each data type.

### Data Entry

The analog touchscreen adds the ability to create touchcells as small as a single character or as large as the entire screen. UniOP also features an internal battery-backed real time clock. Time and date information from the clock are periodically updated in the PLC to enable processing based on time-of-day, day-of-week or any other period.

### Security

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

### Alarms

UniOP can monitor and display up to 1024 alarms. Attributes and unique messages for each alarm can be defined. Operator acknowledgment can also be required. The last 256 alarm events detected by the UniOP are retained in an internal event list. This list can be viewed on screen or printed on a serial printer to obtain a permanent record.

### 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.

### Graphic Capabilities

The ECT-16, ELT-16 and ERT-16 allow you to display bitmap graphics. These bitmap graphics can be created with any Windows™ based software package capable of BMP format.

### 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.

## Recipes

This feature allows you to create a recipe with up to 255 parameter sets for each page of the project file. UniOP has a total of 16K reserved for recipe storage. You can upload or download a parameter set from or to the PLC. Once a parameter set has been downloaded to the PLC, the data contained within the parameter set can be modified.

## UniNET Network

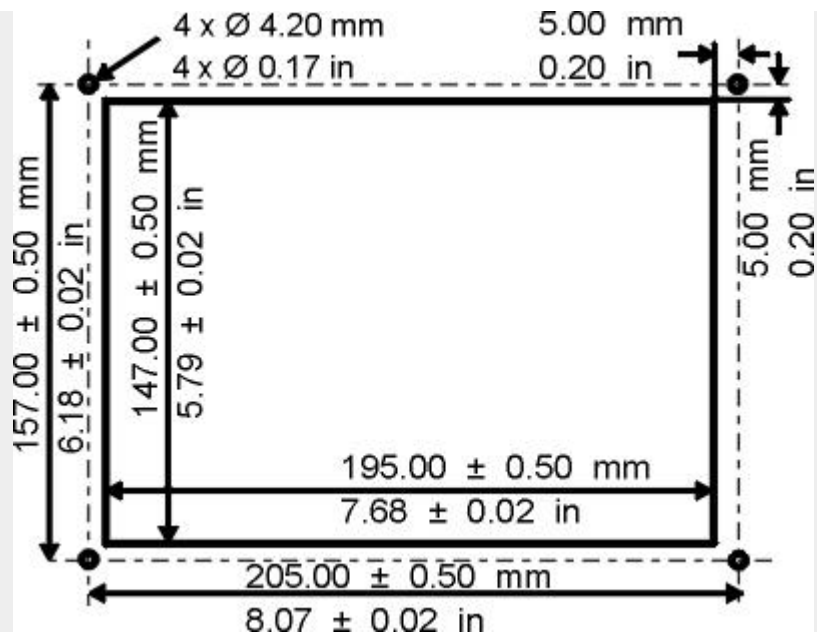
The UniNET network allows the user to design networks of varying configurations; from two panels with one PLC to multiple panels with multiple PLCs. This way data can be written to or retrieved from the PLCs in many different locations at one time. The UniNET network creates a bridge between UniOP panels which allows data to be shared by all PLCs in the network, regardless of the type or manufacturer.

## Important Features

- NEMA 4/12 compliant enclosure
- CE approved
- UniNET network capabilities
- Keyboard Macro Editor
- Recipe configuration
- One RS-232 / RS-422 / RS-485 / 20mA current loop serial port, speeds up to 38,400 baud for direct PLC connection
- One RS-232 port for PC or printer communications
- One auxiliary port for high speed bus network communications
- 512 KB internal memory standard Flash EPROM
- 512 KB internal memory standard Flash EPROM
- Optional 512 KB memory upgrade (1 MB total memory)
- Real time clock with battery back-up
- Unlimited number of variables per page
- 1024 prioritized alarms
- Historical event list (last 256 events)
- Eight-level password protection
- Prints reports, alarm list, and event list to serial printer
- Displays ASCII standard character set

## Specifications

<b>Physical Dimensions</b>	
<b>Cutout Width and Height</b>	See drawing below
<b>Cutout Depth</b>	74 mm (2.9")
<b>Front Panel Thickness (max.)</b>	8 mm (0.31")
<b>Faceplate height</b>	168 mm (6.61")
<b>Faceplate Width</b>	216 mm (8.50")
<b>Weight</b>	1.5 kg (3.4 lb)
<b>Environment</b>	
<b>Operating Temperature</b>	0 to 50 °C (32 to 122 °F)
<b>Humidity</b>	0 to 95% RH (non-condensing)
<b>Power Requirements (ELT)</b>	800 mA maximum, 24 VDC
<b>Power Requirements (ERT/ECT)</b>	500 mA maximum, 24 VDC
<b>Display</b>	
<b>Type</b>	Liquid Crystal, EL, Passive Color STN
<b>Size</b>	16 lines x 40 characters/line
<b>Display Size</b>	5.6 in
<b>Character Height (ECT-16)</b>	5.62 mm (15/64 inch)
<b>Character Height (ELT-16)</b>	4.06 mm (10/64 inch)
<b>Character Height (ERT-16)</b>	5.15 mm (13/64 inch)
<b>Keypad</b>	
<b>Technology</b>	Resistive (tested 3M times)
<b>Warranty</b>	
All products are warranted for one year against defects in material and workmanship.	
<b>Ordering Information</b>	
<b>Description</b>	<b>Part No.</b>
<b>Passive Color STN, 16 x 40</b>	ECT-16
<b>Electroluminescent, 16 x 40</b>	ELT-16
<b>Backlit LCD, 16 x 40</b>	ERT-16
<b>Panel Cutout Dimensions</b>	



Specifications subject to change without notice