

# Dynisco UPR900 Process Indicator

1/4 DIN Panel Display of  
Pressure and/or Temperature



## Description

The UPR900 is a compact 1/4 DIN process indicator. The UPR900 can display your choice of engineering units related to a selectable range of input types. Add an optional secondary input for an all-in-one display of polymer melt pressure and temperature. The secondary input can be strain gauge to indicate differential pressure measurement. The UPR900 includes two standard assignable alarms with the option to add a 3rd. The LCD graphical display allows for easy reading of trending graphs with user selectable monochromatic configurations.

The UPR900 is easily field-configured, can be programmed remotely via optional Modbus RS-485 or can be programmed with BlueControl software.

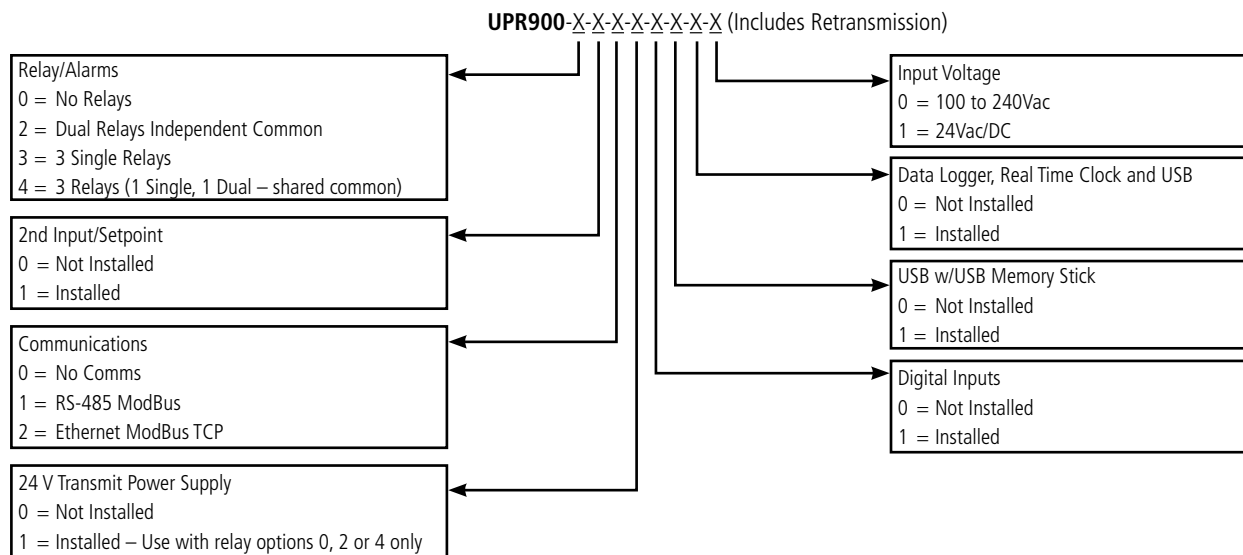
## Features

- Graphical/text LCD Display with color change LED backlight on alarm (red/green)
- Graphical trend view of process, alarms & events as standard
- Easy to use Setup Wizard
- USB port options for access to configuration and log files
- Data logging option logs process values, set points and alarms to .csv file for use with spreadsheets
- Modbus RS-485 and Modbus TCP Ethernet support
- BlueControl configuration and commissioning software option
- Display pressure, temperature, or even differential pressure
- Optional second input/output for cost-effective single instrument
- Analog retransmission of process variable allows signal to be sent to other devices
- Configure locally or remotely by optional Modbus RTU

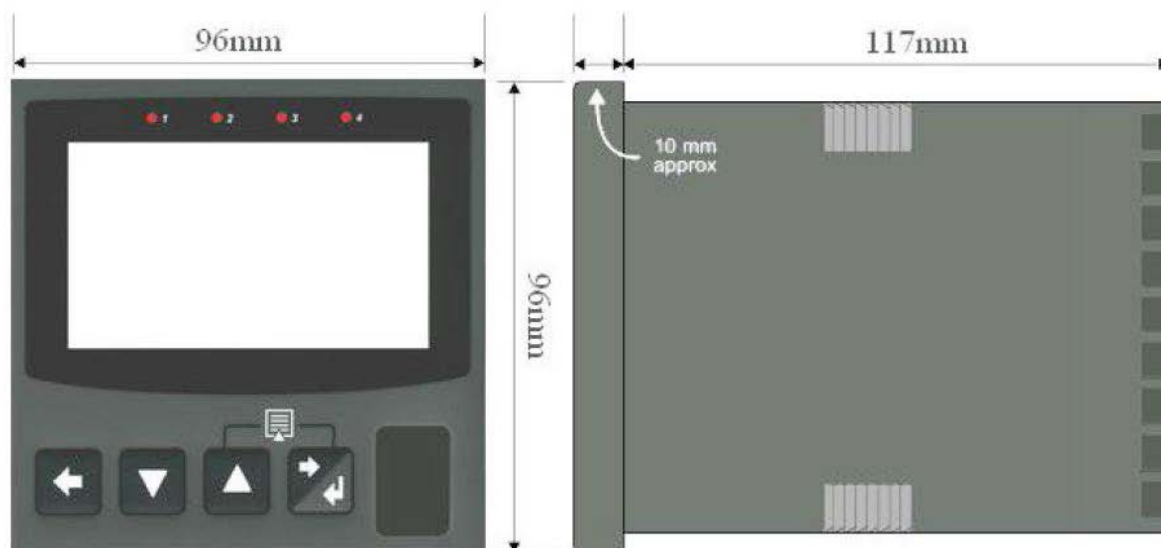
Performance Characteristics	
Instrument Type:	Digital, panel-mount PID closed loop indicator
Display:	160 x 80 Monochromatic Graphical LCD with backlight
Accuracy:	
Thermocouple:	$\pm 0.1\%$ of full range, $\pm 1\text{LSD}$ ( $\pm 1^\circ\text{C}$ for internal CJC if enabled)
DC Linear:	$\pm 0.1\%$ of full range, $\pm 1\text{LSD}$
Sampling Time:	50mS, typical
Input	
Input:	Strain gauge, Thermocouple or linear (Vdc, mA)
Strain Gauge:	350 to 5000 $\Omega$ , 1.4 to 4mV/V, excitation 10V $\pm 7\%$
Linear Input:	0 to 5Vdc and 0 to 10Vdc, 0 to 20mA and 4 to 20mA
Input Signal:	-25 to 125% full scale (approximately -10mV to +50mV)
Input Impedance:	<10 $\Omega$ for linear current input >165k $\Omega$ for linear voltage input
Shunt Calibration:	With or without resistor (40 to 100%)
Digital:	4 programmable voltage-free contact closure
Alarm Outputs	
Alarm Type:	SPST 2A max @ 240Vac resistive load Dual relays have shared common
Alarm Number:	3 standard
Alarm Update Time:	100mS, typical
Outputs	
Type (Retransmission):	0-5Vdc and 0-10Vdc, 0-20mA and 4-20mA
Resolution:	15 3/4 bit
Accuracy:	$\pm 0.1\%$ of output span (mA @ <500 $\Omega$ , V @ >500 $\Omega$ )
Communications	
Type:	Isolated RS-485
Protocol:	Modbus RTU

Mechanical & Packaging Characteristics	
<b>Termination:</b>	Screw terminals on rear
<b>Front Panel:</b>	IP65 with gasket (IP65 front USB connector)
<b>Operating Temp:</b>	32 to 122°F (0 to 50°C)
<b>Storage Temp:</b>	-4 to 158°F (-20 to 70°C)
<b>Humidity:</b>	85% relative humidity, non-condensing
<b>Weight:</b>	1.43 lbs. (650g)
Approvals & Certifications	
<b>CE Mark:</b>	Self-certified to applicable standards
<b>Agency Approvals:</b>	UL
Power Supply (Mains)	
<b>Input Power</b>	
<b>Mains Version:</b>	100 to 240Vac, 50/60Hz switching
<b>Low Voltage Version:</b>	20 to 48 Vac 50/60Hz 25VA or 22 to 65Vdc 12W
<b>Power Consumption:</b>	15VA, max
<b>Transmitter Power Supply:</b>	24Vdc into 400Ω min, 60mA drive for 2-or 4-wire mA transmitters

## Ordering Guide



# Dimensions



All dimensions are in inches (millimeters).  
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 Refer to [www.dynisco.com](http://www.dynisco.com) for access to Operator Manual and other support documentation.  
 DDS276092 DS092513



[www.dynisco.com](http://www.dynisco.com)



## Dynisco

38 Forge Parkway  
 Franklin, MA 02038  
 USA

Hotline 1-800-Dynisco  
[www.dynisco.com](http://www.dynisco.com)  
 Phone +1 508 541 9400  
 Fax +1 508 541 6206  
 Email [infoinst@dynisco.com](mailto:infoinst@dynisco.com)

## Dynisco Europe, GmbH

Pfaffenstr. 21 Phone +49 7131 297 0  
 74078 Hellbronn Fax +49 7131 297 166  
 Germany Email [dyniscoeurope@dynisco.com](mailto:dyniscoeurope@dynisco.com)

## Dynisco Shanghai

Building 7A, No. 568 Phone +86 21 34074072-819  
 Longpan Rd Malu Toll Free +86 400 728 9117  
 Jiading, 201801 China Fax +86 21 34074025