

UPR800 Process Indicator

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



Features

- Display pressure, temperature, or even differential pressure
- Optional second input/output for cost-effective single instrument
- View display information locally or remotely by optional Modbus RTU
- Bar graph display for quick-glance scaled value
- Two alarm relay output, third alarm optional
- Analog retransmission of process variable allows signal to be sent to other devices
- Configure locally or remotely by optional Modbus RTU
- Digital security code prevents unauthorized use
- IP65/NEMA 4X rated for harsh environments

Description

The UPR800 is a compact 1/4 DIN process indicator. The UPR800 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 gage to indicate differential pressure measurement. The UPR includes two standard assignable alarms and the option to add a third. The bright 5-digit LED display value is accompanied by a helpful 35-segment bar graph that illustrates the value in the configured range. Other useful display information includes alarm set points, peak values, and engineering unit beacons. The UPR800 is easily field-configured or can be programmed remotely via optional Modbus RS-485 without complicated mechanical jumpers. An optional 24Vdc input supply is available.



Specifications

PERFORMANCE CHARACTERISTICS

Instrument Type: Digital panel indicator
Display: 5 red LED digits 0.52" (13.2mm) high
 5 green LED digits 0.44" (11.3mm) high
 35-segment bar graph scaled to value
Accuracy: $\pm 0.1\%$ full scale
Sampling Time: 50mS or better

INPUT

Input: Select strain gage or linear (Vdc, mA)
 Second input optionally available
Strain Gage: 350 to 5000 Ω , 1 to 4mV/V,
 excitation 10V $\pm 7\%$
Thermocouple: Types J, K, L, N, T, E
RTD: Type Pt100, Pt500
Linear Input: 0 to 5Vdc and 0 to 10Vdc,
 0 to 20mA and 4 to 20mA
Input Signal: -25 to 125% full scale
Input Impedance: <10- Ω for linear current input
 >165k Ω for linear voltage input
 >1M Ω for thermocouple input (optional)
Shunt Calibration: With or without resistor (40 to 100%)

ALARM OUTPUTS

Alarm Type: SPDT 2A max @ 240Vac resistive load
Alarm Number: 2 standard, 3rd optional
Alarm Update Time: 50mS

OUTPUTS

Type: 0 to 5Vdc and 0 to 10Vdc,
 0 to 20mA and 4 to 20mA
Resolution: $\pm 0.1\%$ of output span
Accuracy: $\pm 0.1\%$ of output span

SERIAL COMMUNICATION INTERFACE

Type: Isolated RS-485
Protocol: Modbus RTU/Jbus selectable

MECHANICAL & PACKAGING CHARACTERISTICS

Termination: Screw terminals on rear with safety covers
Front Panel: IP65/NEMA 4X with gasket
Operating Temp: 32 to 122°F (0 to 50°C)
Storage Temp: -4 to 158°F (-20 to 70°C)
Humidity: 85% relative humidity, non-condensing
Weight: 1.43 lbs. (650g)

APPROVALS & CERTIFICATIONS

CE Mark: Self-certified to applicable standards
Agency Approvals: UL, cUL

POWER SUPPLY (MAINS)

Input Power: 100 to 240Vac, 50/60Hz switching
 24Vac/dc option available (pending)
Power Consumption: 15VA, max
Transmitter Supply: 24Vdc for 2-or 4-wire mA transmitters

Ordering Guide

UPR800-X-X-X (Pressure Indicator, 2 Alarms, Analog Retransmission)

Input:
0 = No Second Input
1 = Second Input (TC, RTD, mA/V, or Strain Gage)
Options:
0 = No Options Present
2 = 24Vdc Auxiliary Transmitter Supply + 2 nd Analog Retransmission
3 = 24Vdc Auxiliary Transmitter Supply + 2 nd Analog Retransmission + RS-485
Power Supply:
3 = 100 to 240Vac, Switching
5 = 24Vac/dc, Switching (availability pending)
To include the 3 rd alarm, add "A3" to the end of the model code.

