



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

Tel.: 03303 / 504066

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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

5 red LED digits 0.52" (13.2mm) high Display:

5 green LED digits 0.44" (11.3mm) high

35-segment bar graph scaled to value

Accuracy: ±0.1% full scale 50mS or better Sampling Time:

INPUT

Input: Select strain gage or linear (Vdc, mA)

Second input optionally available

350 to 5000Ω . 1 to 4mV/V. Strain Gage:

excitation 10V ±7%

Thermocouple: Types J, K, L, N, T, E RTD: Type Pt100, Pt500

0 to 5Vdc and 0 to 10Vdc, **Linear Input:** 0 to 20mA and 4 to 20mA

Input Signal: -25 to 125% full scale

Input Impedance: <10- Ω for linear current input

 $>165k\Omega$ for linear voltage input

 $>1M\Omega$ 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

 $\pm 0.1\%$ of output span **Resolution:** Accuracy: ±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 32 to 122°F (0 to 50°C) **Operating Temp:** -4 to 158°F (-20 to 70°C) Storage Temp:

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)

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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)

1 = Second Input (TC, RTD, mA/V, or Strain Gage)

Options:

0 = No Options Present

0 = No Second Input

2 = 24Vdc Auxiliary Transmitter Supply + 2^{nd} Analog Retransmission

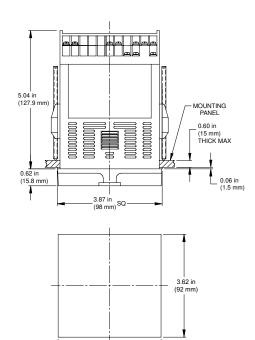
3 = 24Vdc Auxiliary Transmitter Supply + 2^{nd} Analog Retransmission + RS-485

Power Supply:

3 = 100 to 240Vac, Switching

5 = 24Vac/dc, Switching (availability pending)

To include the 3rd alarm, add "A3" to the end of the model code.



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