

# DYNISCO MODEL UPR700

## 1/4 DIN Pressure/Process Indicator with Optional Second Input

### Description

The UPR700 pressure/process indicator is a field configurable and programmable instrument with a choice of 350 Ohm strain gage, voltage or current input. A display of the process variable is shown on a bright red five digit LED display, as well as a 35 segment LED bargraph. A second digital display will capture the peak reading (selectable high or low), can be blanked, or can be used as the indicator for the optional second process variable. The UPR700 is the perfect solution for those who would like to have melt temperature and pressure read out conveniently on one instrument.

### Features

- Strain gage, V or mA input
- 2 programmable, assignable alarms; 3rd alarm optional
- Retransmission output
- Additional analog process input, TC, RTD, V or mA (optional)
- Serial communications (optional)
- 24 Vdc transmitter power supply (optional)
- Second analog output (optional)
- Three levels of security with user defined codes
- IP65/NEMA 4X rated

### Benefits

- Versatile process input choice
- Alarms can be linked to first or second input
- Send information to other devices
- Display two process variables
- Send and receive information from PLCs, PCs, etc.
- Power 2 and 3 wire transmitters
- Send second variable to another device
- Allow different authorization levels
- Useable in harsh environments



## Specifications

### Performance Characteristics

**Power supply:** 100 to 240 Vac 50/60 Hz, switching

**Power consumption:** 15 VA maximum

**Operating temperature:** 0° to 50°C

**Storage temperature:** -20° to +70° C

**Humidity:** Maximum 85% RH non - condensing

**Weight:** 1.43 lbs

### Inputs

**Primary input:** Selectable between strain gage and linear via jumper and configuration

**Strain gage input:** 350 Ohm, 2 to 4 mV/V; excitation 10 V  $\pm$ 7%

**Input signal:** -25% to +125% full scale

**Shunt calibration:** With or without shunt resistor (40.0% to 100.0%)

**Linear input:** Selectable between 0 to 5 Vdc, 0 to 10 Vdc, 0 to 20 mA, 4 to 20 mA scaleable

**Auxiliary power supply (optional):** 24 Vdc/1.5 W for 2 or 4 wire transmitter

**Input impedance:** <10 Ohm for linear current input; >165 kohm for linear voltage input

**Sampling time:** 50 ms typical

**Digital input:** One input, voltage free contact closure. May be programmed for one of the following functions: a. Alarm reset b. Peak reset c. Alarm and peak reset

**Secondary input (optional):** J, K, L, N thermocouple, PT100 RTD

**Linear input:** Selectable between 0 to 10 Vdc, 0 to 20 mA, 4 to 20 mA

### Outputs

**Main analog output:** Selectable between 0 to 10 Vdc, -10 to +10 Vdc, 0 to 5 Vdc, 0 to 20 mA, 4 to 20 mA

**Optional second output:** Selections same as main analog output

**Output functions:** Selectable as main input retransmission or secondary input retransmission

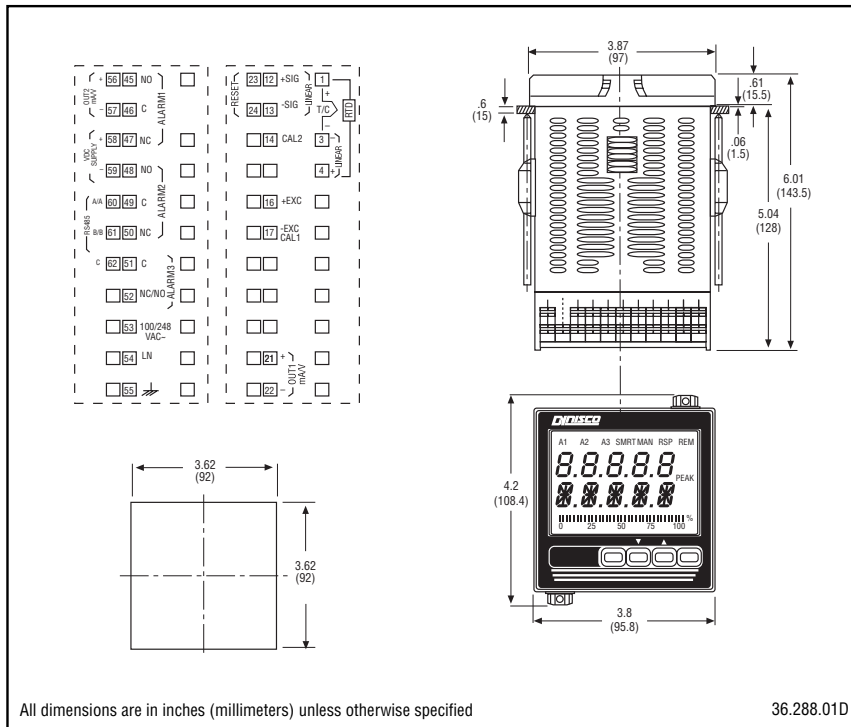
### Serial Communications

**Protocol:** Modbus/Jbus, selectable

**Serial Interface:** RS485

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## 1/4 DIN Pressure/Process Indicator with Optional Second Input



### Ordering Guide

| Model  | Second Input |               | Options |   | Power |                           |
|--------|--------------|---------------|---------|---|-------|---------------------------|
|        | Code         | Description   | Code    | Description   | Code  | Voltage                   |
| UPR700 | 0            | Not present   | 0       | No options  | 3     | 100 - 240 Vac (switching) |
|        | 1            | TC, RTD, mA/V | 2       | 24 Vdc transmitter power supply and 2nd analog retransmission           | 5     | 24 Vac/Vdc (switching)    |
|        |              |               | 3       | 24 Vdc transmitter power supply, 2nd analog retransmission and RS - 485 |       |                           |

**Note:** If alarm 3 is required, add the suffix A3 to the model number as shown in the ordering example below.

*Ordering Example: UPR700 - 1 - 2 - 3 A3*

- Dual input UPR700 with 24 Vdc auxiliary power supply and 2nd analog retransmission output for 100 - 240 Vac operation and third alarm

### Delivery

Please call for specific delivery information.