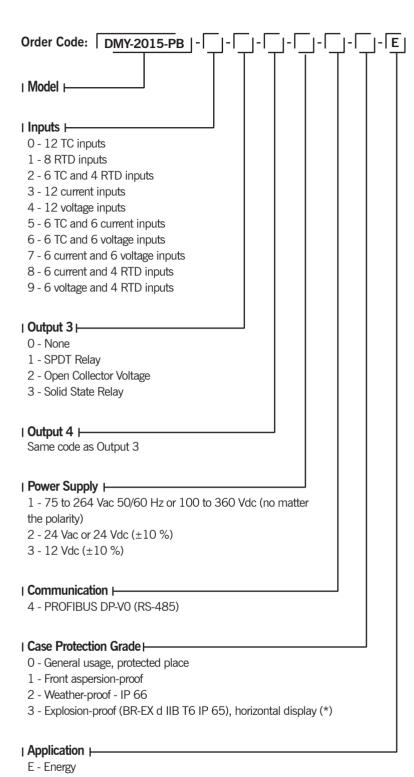
PRESYS®



Digital Multi-Point Indicator DMY-2015-PB Energy PROF BUS

- PROFIBUS® Communication (DP-V0) over RS-485 Physical Layer.
- Ideal for use in Hydro-electric and Thermoelectric power plants.
- Versions:
 - 12 THERMOCOUPLE INPUTS.
 - 8 RTD INPUTS.
 - 12 CURRENT 4-20 mA INPUTS.
- Failure Alarm.
- Trip Alarm.
- Many optional modules are available:
 - Up to 2 SPDT relay alarm modules.
 - One retransmitter output, 1-5 Vdc or 4-20 mA or 0-10 Vdc, can retransmit any input signal or the average of selected channels via configuration (upon request).
 - Galvanic isolation between inputs, outputs and power supply.
 - Isolation between the inputs is also available upon request.
 - Front aspersion-proof.
- High-visibility display configurable up to 4 digits for indication of process variable and 12 LEDs which may indicate alarm and communication states for each channel.

- COMBINATION OF 2 INPUT TYPES.



(*) Explosion-proof box: **Dimensions**

Weight 11 kg approx.

310 x 310 x 200 mm (H x W x D)

Specifications

Inputs

TC Inputs (J, K, T, E, R, S under ITS - 90). RTD Inputs (Pt-100 under DIN 43760). 4-20 mA inputs with 250 Ω impedance. 1-5 Vdc input with impedance greater than 10 M Ω .

Outputs

Up to two SPDT relays rated for 3A / 220 Vac. Logic Signal, open collector transistor, 40 mA / 24 Vdc maximum with isolation. Solid state relay, 2A / 250 Vac with isolation.

Serial Communication

PROFIBUS® Communication DP-V0 over RS-485.

Indication

14 mm red LEDs display with four digits to show the process variable. 12 red LEDs for alarms and communication state indication.

Configuration

By front-panel push-buttons.

Sampling Rate

480 ms. One second display update rate.

Accuracy

 \pm 0.1 % of full scale for TC, RTD, mA, Vdc.

Linearization

 \pm 0.1 °C for RTD and \pm 0.2 °C for TC.

Square Root Extraction

 $\pm~0.5~\%$ of reading, for input above 10 % of span. Programmable Cut-off from 0 to 5 % .

Cold Junction Compensation

 \pm 2.0 °C at range from 0 to 50 °C of ambient temperature.

Span Temperature Coefficient

 \pm 0.005 % of span / °C taking 25 °C as the reference temperature.

Power Supply

75 to 264 Vac 50 / 60 Hz or 100 to 360 Vdc (10 W nominal); 24 Vac/ dc (±10 %); 12 Vdc (±10 %).

Operation Ambient

0 to 50 $^{\circ}\text{C}$ temperature and 90 % maximum relative humidity.

Dimensions

1/4 DIN - $96 \times 96 \times 187$ mm (HxWxD), 92×92 mm (HxW) panel cutout.

Weight

0.7 kg approx.

Warranty

One year.