

PRESYS®



Digital Multi-Point Indicator DMY-2015-PB Energy

**PROFI®
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.
 - 12 VOLTAGE 1-5 Vdc INPUTS.
 - COMBINATION OF 2 INPUT TYPES.
- 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.

Order Code: **DMY-2015-PB** - - - - - - - - - **E**

Model

Inputs

- 0 - 12 TC inputs
- 1 - 8 RTD inputs
- 2 - 6 TC and 4 RTD inputs
- 3 - 12 current inputs
- 4 - 12 voltage inputs
- 5 - 6 TC and 6 current inputs
- 6 - 6 TC and 6 voltage inputs
- 7 - 6 current and 6 voltage inputs
- 8 - 6 current and 4 RTD inputs
- 9 - 6 voltage and 4 RTD inputs

Output 3

- 0 - None
- 1 - SPDT Relay
- 2 - Open Collector Voltage
- 3 - Solid State Relay

Output 4

Same code as Output 3

Power Supply

- 1 - 75 to 264 Vac 50/60 Hz or 100 to 360 Vdc (no matter the polarity)
- 2 - 24 Vac or 24 Vdc ($\pm 10\%$)
- 3 - 12 Vdc ($\pm 10\%$)

Communication

- 4 - PROFIBUS DP-V0 (RS-485)

Case Protection Grade

- 0 - General usage, protected place
- 1 - Front aspersion-proof
- 2 - Weather-proof - IP 66
- 3 - Explosion-proof (BR-EX d IIB T6 IP 65), horizontal display (*)

Application

E - Energy

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

- $\pm 0.1^\circ\text{C}$ for RTD and $\pm 0.2^\circ\text{C}$ 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

- $\pm 2.0^\circ\text{C}$ at range from 0 to 50 $^\circ\text{C}$ of ambient temperature.

Span Temperature Coefficient

- $\pm 0.005\%$ of span / $^\circ\text{C}$ taking 25 $^\circ\text{C}$ as the reference temperature.

Power Supply

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

Operation Ambient

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

Dimensions

- 1/4 DIN - 96 x 96 x 187 mm (HxWxD), 92 x 92 mm (HxW) panel cutout.

Weight

- 0.7 kg approx.

Warranty

- One year.

(*) Explosion-proof box:

Dimensions

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

Weight

11 kg approx.