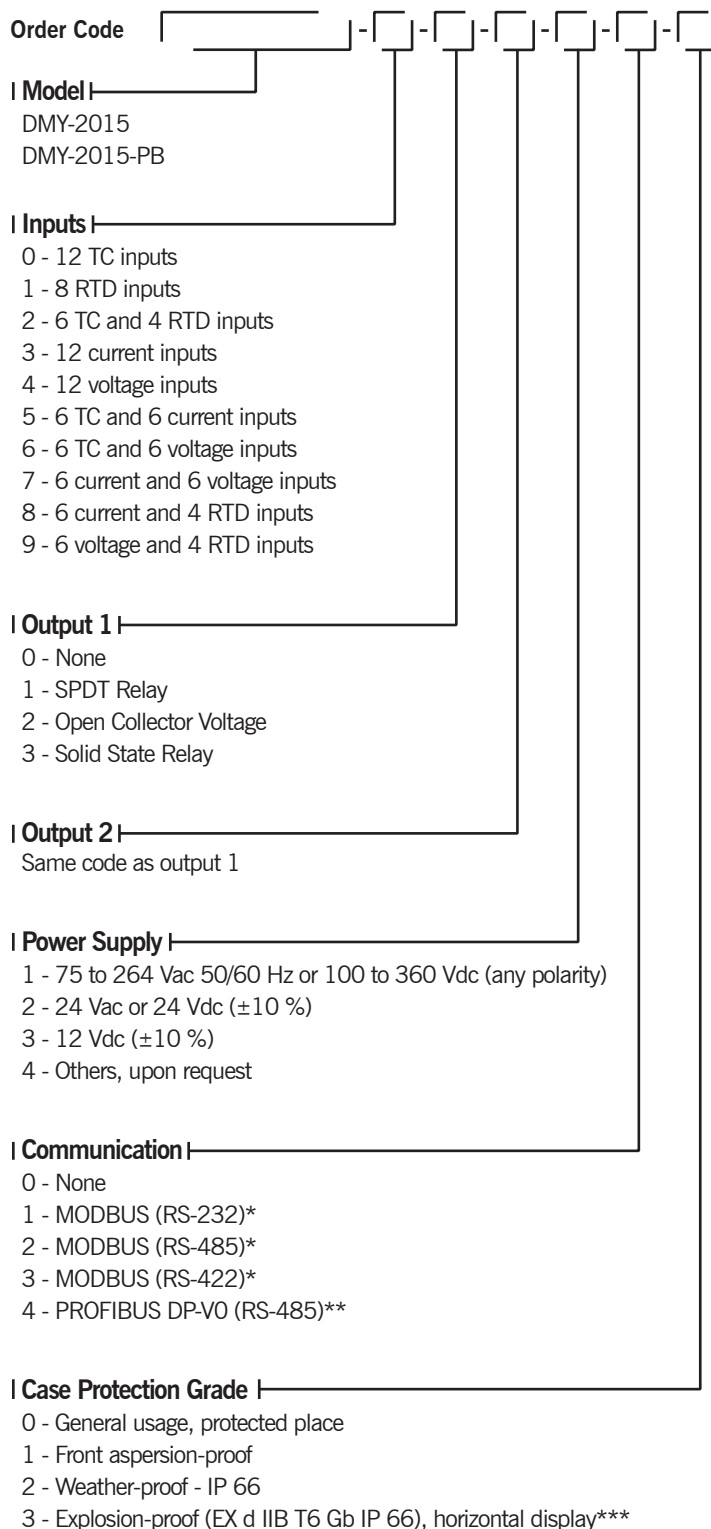# PRESYS

Digital Multi-point Indicator DMY-2015 and DMY-2015-PB

PROFI BUS®

- Models available for:

    - 12 THERMOCOUPLE INPUTS.
    - 8 RTD INPUTS.
    - 12 CURRENT INPUTS 4-20 mA.
    - 12 VOLTAGE INPUTS 1-5 Vdc.
    - COMBINATION OF 2 INPUT TYPES.

- Totalization function.

- Many optional Modules are available:
    - Up to 2 SPDT relays alarm modules.
    - One retransmitter output 1-5 Vdc, 4-20 mA
      or 0-10 Vdc, which can retransmit any input signal or the
      mean of selected channels configuration. (item upon request).
    - Galvanic isolation between inputs, outputs and power supply.
    - Isolation between inputs is also available upon request.
    - RS-232, RS-422/485 Communication (MODBUS® RTU Protocol) or PROFIBUS® (DP-V0)*.
    - Aspersion-proof front-panel.

- Configurable display for up to 4-digit of high visibility for the process variable indication. Another display shows which channel is being displayed. Still has twelve LEDs that may indicate alarm states for each channel.

*Only available for DMY-2015-PB model.

PRESYS®

Order Code [   ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

Model
DMY-2015
DMY-2015-PB

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

Output 2
Same code as output 1

Power Supply
1 - 75 to 264 Vac 50/60 Hz or 100 to 360 Vdc (any polarity)
2 - 24 Vac or 24 Vdc (±10 %)
3 - 12 Vdc (±10 %)
4 - Others, upon request

Communication
0 - None
1 - MODBUS (RS-232)*
2 - MODBUS (RS-485)*
3 - MODBUS (RS-422)*
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 (EX d IIB T6 Gb IP 66), horizontal display***

* Available only for DMY-2015 model
** Available only for DMY-2015-PB model

*** Explosion-proof box:
   Dimensions
      310 x 310 x 200 mm (HxWxD)
   Weight
      11 kg approx.

Specifications

Inputs
Thermocouple (J, K, T, E, R, S under ITS-90).
RTD Pt-100 under DIN 43760.
4-20 mA with input impedance of 250 Ω.
1 to 5 Vdc with input impedance >10 MΩ.

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

Serial Communication
DMY-2015: RS-232 or RS-422/485 with 50 Vdc isolation.
MODBUS®-RTU Communication Protocol.
DMY-2015-PB: PROFIBUS® DP-V0: RS-485 Communication.

Indication
4-digit red leds display (14 mm) for process variable indication.
2-digit display for channel indication. 12 red leds for alarm
indication.

Totalization
Totalization of eight voltage or current inputs ranging from
0 to 9999, configured with the decimal point.

Configuration
By front-panel push-buttons

Sampling Rate
480 ms standard, for all inputs. One second display update rate.

Accuracy
± 0.1 % of full scale for TC, RTD, mA, Vdc.

Linearization
± 0.1 ℃ for RTD and ± 0.2 ℃ for TC.

Square Root Extraction
± 0.5 % of reading, for input above 10 % of span.
Programmable Cut-off from 0 to 5 %.

Cold Junction Compensation
± 2.0 ℃ in ambient temperature range from 0 to 60 ℃.

Span Temperature Coefficient
± 0.005 % of span / ℃ using 25 ℃ 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 %).

Operating Range
0 to 60 ℃ 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 nominal.

Warranty
One year.