# Multi-Loop Data-Logger Module



## DMY-2015-DLY

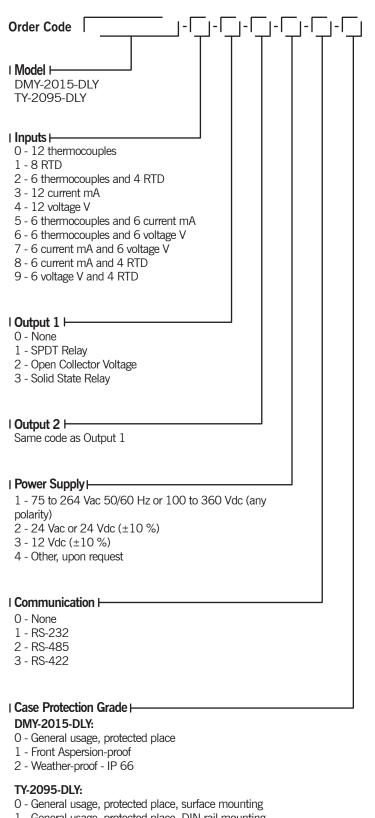
- Available inputs for DMY-2015-DLY and TY-2095-DLY:
  - 12 thermocouple inputs.
  - 8 RTD inputs.
  - 12 current inputs 4-20 mA.
  - 12 voltage inputs 1-5 Vdc.
  - Combinations of two types of input.
- Several optional are available:
  - 2 alarm modules with SPDT relay.
  - Aspersion-proof front panel.
  - RS-232 or RS-422/485 communication.



- Data Logger function for storage of up to 256 000 readings.
- High level of accuracy. RTD and thermocouple linearization; square root extraction for mA and V inputs.
- DMY-2015-DLY: 4-digit display of high visibility and 2-digit display to indicate the channel. Fully configurable from the front panel. ACK button.
- TY-2095-DLY: DIN rail or surface mounting. Configurable via serial communication or through configuration module.







- 1 General usage, protected place, DIN rail mounting
- 2 Weather-proof IP 66
- 3 Dust-proof

### Specifications

#### Inputs

Thermocouple (J, K, T, E, R, S under ITS - 90). RTD Pt-100 under DIN 43760. 4-20 mA, 250  $\Omega$  input impedance. 1-5 Vdc, input impedance >10 M $\Omega$ .

#### Outputs

Two SPDT relay modules 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

RS-232 or RS-422/485 with 50 Vdc isolation. MODBUS®-RTU Communication Protocol.

#### Indication

DMY-2015-DLY: 4-digit red leds display (14 mm), that can be configured together with the decimal point. TY-2095-DLY: without local indication.

#### Configuration

DMY-2015-DLY: by front panel push buttons. TY-2095-DLY: through the MCY-25 portable configurator.

#### Sampling Rate

660 ms standard, for all inputs. One second display update rate.

#### Accuracy

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

#### 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 in ambient temperature range from 0 to 60 °C.

Span Temperature Coefficient

 $\pm$  0.005 % of span / °C using 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 %).

#### **Operating Range**

0 to 60 °C temperature and 90 % maximum relative humidity.

#### Dimensions

DMY-2015-DLY: 1/4 DIN (96 x 96 x 187 mm) HxWxD, (92 x 92 mm) HxW panel cutout. TY-2095-DLY: (140 x 93 x 173 mm) HxWxD.

Weight 0.7 kg nominal.

Warranty One year.