

Multi-Loop Data-Logger Module



DMY-2015-DLY



TY-2095-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.
 - Aspersation-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.

Order Code - - - - - - -

Model

DMY-2015-DLY
TY-2095-DLY

Inputs

0 - 12 thermocouples
1 - 8 RTD
2 - 6 thermocouples and 4 RTD
3 - 12 current mA
4 - 12 voltage V
5 - 6 thermocouples and 6 current mA
6 - 6 thermocouples and 6 voltage V
7 - 6 current mA and 6 voltage V
8 - 6 current mA and 4 RTD
9 - 6 voltage V and 4 RTD

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 ($\pm 10\%$)
3 - 12 Vdc ($\pm 10\%$)
4 - Other, upon request

Communication

0 - None
1 - RS-232
2 - RS-485
3 - RS-422

Case Protection Grade

DMY-2015-DLY:
0 - General usage, protected place
1 - Front Aspersion-proof
2 - Weather-proof - IP 66

TY-2095-DLY:
0 - General usage, protected place, surface mounting
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 Ω input impedance.
1-5 Vdc, input impedance $> 10\text{ M}\Omega$.

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.

Linearization

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

$\pm 2.0\text{ }^\circ\text{C}$ in ambient temperature range from 0 to 60 $^\circ\text{C}$.

Span Temperature Coefficient

$\pm 0.005\%$ of span / $^\circ\text{C}$ using 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 ($\pm 10\%$).

Operating Range

0 to 60 $^\circ\text{C}$ 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.