

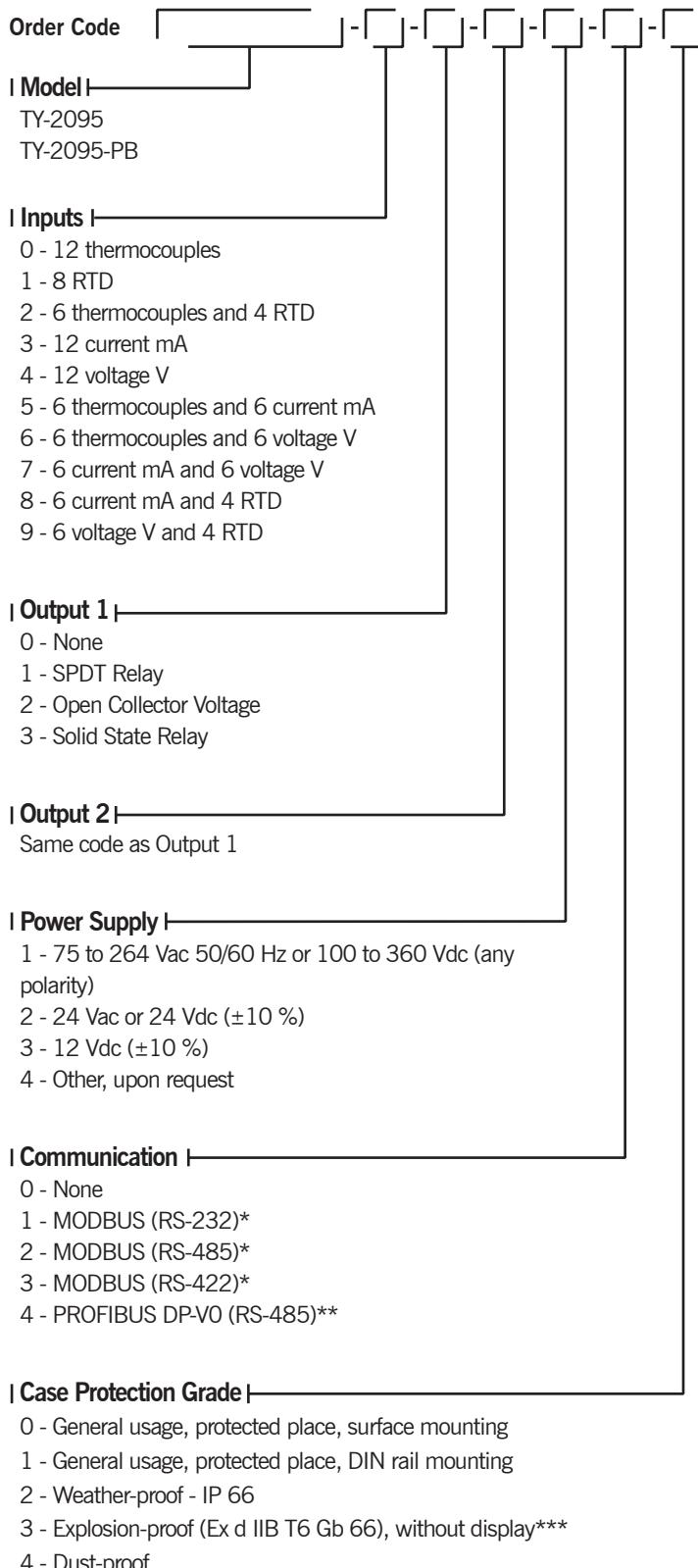


Data Acquisition Module TY-2095 and TY-2095-PB

PROFIBUS®

- Available models:
 - 12 thermocouple inputs.
 - 8 RTD inputs.
 - 12 current 4-20 mA inputs.
 - 12 voltage 1-5 Vdc inputs.
 - Combination of two input types.
- Eight voltage or current inputs totalization.
- Available optionals:
 - Up to two SPDT relay alarm modules.
 - RS-232, RS-422/485 Communication (MODBUS® RTU Protocol) or PROFIBUS® (DP-V0)*.
- Features DIN rail or surface mounting.
- High level of accuracy. RTD and thermocouple linearization; square root extraction for mA and V inputs.
- Configurable via serial communication or through portable configurator.

*Available only for the model TY-2095-PB



* Only available for the model TY-2095

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*** Explosion-proof box.

Dimensions

310 x 310 x 200 mm (HxWxD)

Weight

11 kg nominal

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 M Ω .

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

TY-2095: RS-232 or RS-422/485. MODBUS®-RTU

Communication Protocol.

TY-2095-PB: PROFIBUS® DP-V0: RS-485.

Indication

Without local indication. Maximum range from -999 to 9999 viewed through the MCY-25 Configuration Module.

Totalization

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

Configuration

Through MCY-25 portable configurator.

Sampling Rate

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

Accuracy

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

140 x 93 x 173 mm HxWxD.

Weight

0.7 kg nominal.

Warranty

One year.