



Universal Process Indicator Dual

DMY-2030 / DMY-2030-F

- DMY-2030 / 2011 / 2035 / 2036:
Two universal inputs for RTD, TC, mV, 4-20 mA, 1-5 Vdc and 0-10 Vdc.
- DMY-2030F / 2011F / 2035F / 2036F:
Two frequency inputs up to 30 kHz, from 300 mVpp to 30 Vpp.
- High visibility displays.
- Linearization for RTD and thermocouple. Square root extraction.
- Configuration stored in non-volatile memory.
- Many optional modules are available:
 - Up to 2 analog output modules 4-20 mA, 1-5 Vdc, 0-10 Vdc.
 - Up to 2 SPST relay modules + up to 2 SPDT relay modules.
 - Aspersion-proof front-panel.
 - Communication RS-232 or RS-422/485 with computer
- Simultaneous display of channels on models with two displays.



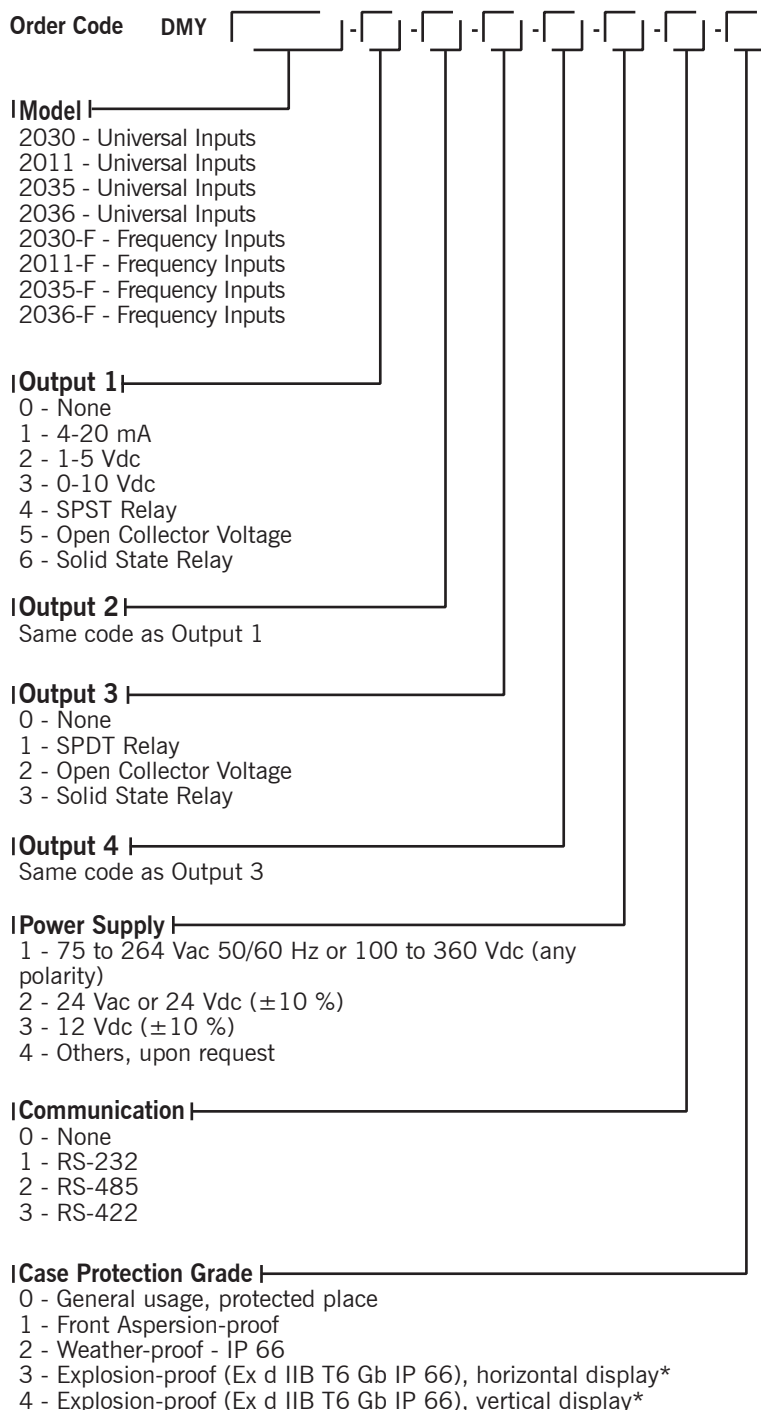
DMY-2011 /
DMY-2011-F



DMY-2035 /
DMY-2035-F



DMY-2036 / DMY-2036-F



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

Specifications

Inputs

DMY-2030/2011/2035/2036: Two configurable inputs for thermocouple (J, K, T, E, R, S under ITS-90), 0-55 mV, RTD Pt-100 under DIN 43760, 4-20 mA, 1-5 Vdc and 0-10 Vdc. 4-20 mA with input impedance of 250 Ω . >10 M Ω up to 5 Vdc and 2 M Ω above 5 Vdc.

DMY-2030-F/2011-F/2035-F/2036-F: Two frequency inputs for signals up to 30 kHz, from 300 mVpp to 30 Vpp.

Outputs

4-20 mA (750 Ω maximum load), 1-5 Vdc or 0-10 Vdc analog retransmitter. Up to 2 galvanically isolated modules to 300 Vac from power supply and inputs. Up to 2 SPDT relay modules and up to 2 SPST 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.

Note: In the case of using an analog output, one can use three alarm modules, or when using two analog outputs, one can use up to two alarm modules.

Serial Communication

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

Indication

DMY-2030/2030-F: 4 1/2 digit red leds display (14 mm).
 DMY-2011/2011-F: 2 x 4-digit red leds display (14 mm).
 DMY-2035/2035-F: 2 x 4-digit red leds display (9 mm).
 DMY-2036/2036-F: 2 x 4-digit red leds display (14 mm and 9 mm). Can be configured together with the decimal point.

Configuration

By front-panel push-buttons and internal jumpers

Sampling Rate

120 ms standard. One second display update rate.

Accuracy

$\pm 0.1\%$ of full scale for TC, RTD, mA, mV and Vdc.
 $\pm 0.5\%$ of full scale for analog retransmitter output.
 ± 1 Display resolution for frequency input.

Linearization

$\pm 0.1\%$ for RTD and $\pm 0.2\%$ 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

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

2-wire Transmitter Power Supply

24 Vdc/50 mA maximum, isolated from output with short circuit protection.

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-2030/2030-F: 1/8 DIN (48 x 96 x 187 mm) HxWxD, (45 x 92 mm) HxW panel cutout.
 DMY-2011/2011-F: 1/4 DIN (96 x 96 x 187 mm) HxWxD, (92 x 92 mm) HxW panel cutout.
 DMY-2035/2035-F: 1/8 DIN (96 x 48 x 187 mm) HxWxD, (92 x 45 mm) HxW panel cutout.
 DMY-2036/2036-F: 1/8 DIN (48 x 96 x 187 mm) HxWxD, (45 x 92 mm) HxW panel cutout.

Weight

0.5 kg nominal (DMY-2030/2030-F/2035/2035-F/2036/2036-F)
 0.6 kg nominal (DMY-2011/2011-F).

Warranty

One year.