Product data sheet Characteristics

RMPT30BD

Converter for Universal Pt100 probes, Harmony Analog, temperature transmitter, 0...100 degree COr 32...212 degree F





Main

Harmony Analog
Converter for Universal Pt100 probes
Temperature probe 0100 °C/32212 °F Pt 100 2, 3 or 4 wires
Current 020 mA <= 500 Ohm Current 420 mA <= 500 Ohm Voltage 010 V >= 100 kOhm

Complementary

Protection Type	Reverse polarity protection on power supply
	Short-circuit protection on output
	Overvoltage protection on output (+/- 30 V)
	Reverse polarity protection on output
Abnormal analogue output voltage	-1511 V no input or input wire broken
	1115 V no input or input wire broken
Abnormal analogue output current	-300 MA no input or input wire broken
	2230 mA no input or input wire broken
[Us] Rated Supply Voltage	24 V DC non isolated +/- 20 %
Current consumption	<= 40 mA voltage output
	<= 60 mA current output
Local signalling	For power ON LED (green)
Measurement error	+/- 0.5 % of full scale 3 or 4 wires)20 °C
	+/- 1 % of full scale 2 wires)20 °C
	+/- 10 % of full scale20 °C electromagnetic interference of 10 V/m)
Repeat accuracy	+/- 0.2 % full scale 20 °C
	+/- 0.6 % full scale 60 °C
Temperature Coefficient	150 ppm/°C
Maximum wiring resistance	0.2 Ohm 2 wires
Clamping Connection Capacity	1 x 2.5 mm²
	2 x 1.5 mm ²
Tightening torque	5.319.74 lbf.in (0.61.1 N.m)
Marking	CE
Surge withstand	0.5 kV 1.2/50 μs IEC 61000-4-5
[Ui] Rated Insulation Voltage	2000 V
Fixing mode	Clip-on 35 mm symmetrical DIN rail)
	Fixed mounting plate)
Safety reliability data	MTTFd = 32.9 years
	B10d = 30437
Net Weight	0.26 lb(US) (0.12 kg)

Environment

Electromagnetic compatibility	Electrostatic discharge 6 kV contact discharge)level 3 IEC 61000-4-2 Electrostatic discharge 8 kV air discharge)level 3 IEC 61000-4-2
Standards	DIN 43760 EN/IEC 60751 EN/IEC 60947-1 EN/IEC 60584-1
Product Certifications	GL UL CSA
IP degree of protection	IP20 terminal block) IP50 housing)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1 1562 °F (850 °C) UL
Shock resistance	50 gn 11 ms IEC 60068-2-27
Vibration resistance	5 gn 10100 Hz)IEC 60068-2-6
Resistance to fast transients	1 KV IEC 61000-4-4 on input-output) 2 kV IEC 61000-4-4 on power supply)
Disturbance radiated/conducted	CISPR 22 group 1 - class B CISPR 11
Ambient Air Temperature for Storage	-40185 °F (-4085 °C)
Ambient Air Temperature for Operation	32122 °F (050 °C) mounting side by side 32140 °F (060 °C) 2 cm spacing
Pollution degree	2 IEC 60664-1

Ordering and shipping details

Category	22375-INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3389110108965
Returnability	No
Country of origin	ID

Packing Units

PCE
1
1.06 in (2.7 cm)
3.23 in (8.2 cm)
3.35 in (8.5 cm)
3.81 oz (108.0 g)
S02
47
5.91 in (15.0 cm)
11.81 in (30.0 cm)
15.75 in (40.0 cm)
12.25 lb(US) (5.557 kg)
P06
752
29.53 in (75 cm)
23.62 in (60 cm)
31.50 in (80 cm)
216.05 lb(US) (98 kg)

Offer Sustainability

Warranty

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EEU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	€Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

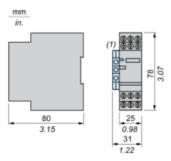
18 months

Product data sheet Dimensions Drawings

RMPT30BD

Analog Interface (Converter)

Dimensions



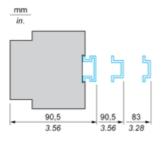
(1) Terminal block AB1TP435U or AB1RRNTP435U2

Product data sheet Mounting and Clearance

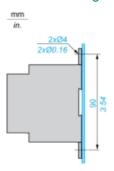
RMPT30BD

Mounting

Mounting on Rails AM1 *****

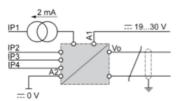


Panel Mounting



Analog Interface: Converter for Universal Pt100 Probe

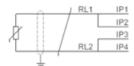
Wiring Diagram



The input, output and power supply lines must be kept away from the power cables to avoid effects due to induced interference. The supply, input and output cables must be shielded as indicated in the schemes and must be kept away from each other.

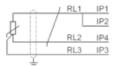
Input Connections

2-wire type



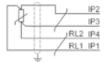
RL1 + RL2 ≤ 200 mΩ

3-wire type



RL1 = RL2 = RL3

4-wire type



RL1 + RL2 ≤ 200 Ω