Specifications

Green Premium



Converter for Optimum Pt100 probes, Harmony Analog, temperature transmitter, 40...40 degree COr 40...104 degree F

RMPT13BD

() Discontinued on: Aug 15, 2024

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 113.00 USD

Main

Range of Product	Harmony Analog	
Product or Component Type	Converter for Optimum Pt100 probes	
Analogue input type	Temperature probe - 4040 °C/- 40104 °F Pt 100 2, 3 or 4 wires	
Analogue output type	Current 420 mA <= 500 Ohm Voltage 010 V >= 100 kOhm	

Complementary

Complementary	
Protection Type	Reverse polarity protection on output Overvoltage protection on output (+/- 30 V) Reverse polarity protection on power supply Short-circuit 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 temporary performance degradation when subject to electromagnetic interference) +/- 1 % of full scale 2 wires)20 °C temporary performance degradation when subject to electromagnetic interference)
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 mm ² 2 x 1.5 mm ²
Tightening torque	5.39.7 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

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Fixing mode	Clip-on (35 mm symmetrical DIN rail) Fixed (mounting plate)
Safety reliability data	B10d = 40564 MTTFd = 43.9 years
Net Weight	0.26 lb(US) (0.12 kg)

Environment

Electromagnetic compatibility	Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2
Standards	IEC 60751 IEC 60584-1 DIN 43760 IEC 60947-1
Product Certifications	CSA UL GL
IP degree of protection	IP20 terminal block) IP50 housing)
Fire resistance	1562.000000000 °F (850 °C) IEC 60695-2-1 1562.000000000 °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 11 CISPR 22 group 1 - class B
Ambient Air Temperature for Storage	-40.000000000185.0000000000 °F (-4085 °C)
Ambient Air Temperature for Operation	32.000000000122.0000000000 °F (050 °C) mounting side by side 32.000000000140.0000000000 °F (060 °C) 2 cm spacing
Pollution degree	2 IEC 60664-1

Ordering and shipping details

Category	US10CP222375	
Discount Schedule	0CP2	
GTIN	3389110108934	
Returnability	No	
Country of origin	ID	

Packing Units

-	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.06 in (2.7 cm)
Package 1 Width	3.2 in (8.2 cm)
Package 1 Length	3.3 in (8.5 cm)
Package 1 Weight	3.8 oz (108.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	47

Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	12.326 lb(US) (5.591 kg)

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information

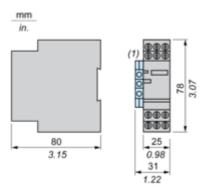
Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
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

Dimensions Drawings

Analog Interface (Converter)

Dimensions

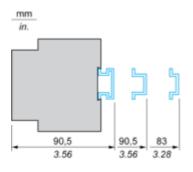


(1) Terminal block AB1TP435U or AB1RRNTP435U2

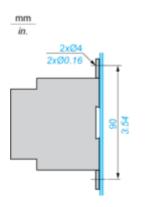
Mounting and Clearance

Mounting

Mounting on Rails AM1



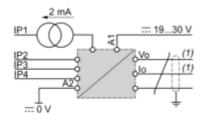
Panel Mounting



Connections and Schema

Analog Interface: Converter for Optimum Pt100 Probe

Wiring Diagram



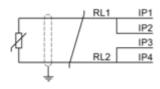
(1) Use 1 output only.

The input, output and power supply lines must be kept away from the power cables to avoid effects due to induced interference.

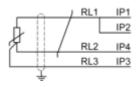
The supply, input and output cables must be shielded as indicated in the schemes and must be kept away from each other.

Input Connections

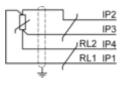
2-wire type



RL1 + RL2 ≤ 200 mΩ 3-wire type



RL1 = RL2 = RL3 $RL1 + RL2 \ge 200 \ \Omega$ $4-wire \ type$



RL1 + RL2 ≤ 200 Ω

Technical Illustration

Dimensions

