# **Product data sheet**

Specifications





Converter for Universal Pt100 probes, Harmony Analog, temperature transmitter, 0...250 degree COr 32...482 degree F

RMPT50BD

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

Price\*: 141.00 USD

### Main

Range of Product	Harmony Analog
Product or Component Type	Converter for Universal Pt100 probes
Analogue input type	Temperature probe 0250 °C/32482 °F Pt 100 2, 3 or 4 wires
Analogue output type	Current 020 mA <= 500 Ohm Current 420 mA <= 500 Ohm Voltage 010 V >= 100 kOhm

# Complementary

Protection Type	Reverse polarity protection on output Short-circuit protection on output Reverse polarity protection on power supply Overvoltage protection on output (+/- 30 V)
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	2 x 1.5 mm <sup>2</sup> 1 x 2.5 mm <sup>2</sup>
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
Fixing mode	Clip-on (35 mm symmetrical DIN rail) Fixed (mounting plate)

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

Safety reliability data	B10d = 30437 MTTFd = 32.9 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 60947-1 IEC 60584-1 DIN 43760 IEC 60751
Product Certifications	CSA UL GL
IP degree of protection	IP20 terminal block) IP50 housing)
Fire resistance	1562.0000000000 °F (850 °C) IEC 60695-2-1 1562.0000000000 °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	32.0000000000122.0000000000 °F (050 °C) mounting side by side 32.0000000000140.0000000000 °F (060 °C) 2 cm spacing
Pollution degree	2 IEC 60664-1

# Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
GTIN	3389110108989
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	3.7 oz (106.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	47
Package 2 Height	5.9 in (15 cm)

Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	11.940 lb(US) (5.416 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	752
Package 3 Height	29.5 in (75 cm)
Package 3 Width	23.6 in (60 cm)
Package 3 Length	31.5 in (80 cm)
Package 3 Weight	216.05 lb(US) (98 kg)

# **Contractual warranty**

Warranty 18 months

# Sustainability Green Premium\*

**Green Premium**<sup>TM</sup> **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-CO<sub>2</sub> products.

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

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

## Well-being performance



Mercury Free



Rohs Exemption Information

Yes

## **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.
Weee Circularity Profile	, , , , , , , , , , , , , , , , , , , ,

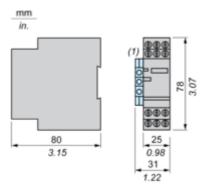
# **Product data sheet**

## RMPT50BD

**Dimensions Drawings** 

## Analog Interface (Converter)

### **Dimensions**



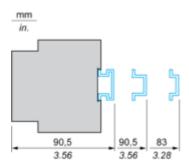
(1) Terminal block AB1TP435U or AB1RRNTP435U2

# RMPT50BD

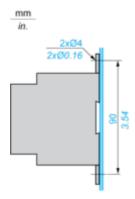
Mounting and Clearance

### Mounting

### Mounting on Rails AM1 \*\*\*\*\*



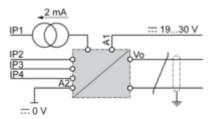
### **Panel Mounting**



### Connections and Schema

### Analog Interface: Converter for Universal Pt100 Probe

### Wiring Diagram

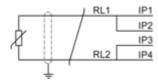


The input, output and power supply lines must be kept away from the power cables to avoid effects due to induced

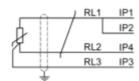
The supply, input and output cables must be shielded as indicated in the schemes and must be kept away from each other.

#### **Input Connections**

#### 2-wire type

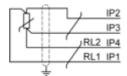


RL1 + RL2  $\leq$  200 m $\Omega$ 3-wire type



RL1 = RL2 = RL3 RL1 + RL2  $\geq$  200  $\Omega$ 

#### 4-wire type



RL1 + RL2 ≤ 200 Ω

**Technical Illustration** 

#### **Dimensions**

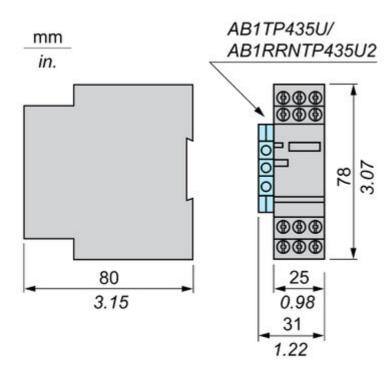


Image of product / Alternate images

### **Alternative**













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