

Product datasheet

Specifications



temperature transmitter - 0..500 °C/
32..932 °F - for Universal Pt100
probes

RMPT70BDA1

⚠ Discontinued on: 1 Nov 2020

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Main

Range of product	Harmony Analog
Product or component type	Converter for Universal Pt100 probes
Analogue input type	Temperature probe 0...500 °C/32...932 °F Pt 100

Complementary

Protection type	Reverse polarity protection on power supply Reverse polarity protection on output Short-circuit protection on output Overvoltage protection on output (+/- 30 V)
abnormal analogue output voltage	+/- 13 V when no input wired or wire broken
abnormal analogue output current	0 A when no input wired or wire broken
Current consumption	<= 40 mA for voltage output <= 60 mA for current output
Local signalling	LED (green) for power ON
Clamping connection capacity	1 x 2.5 mm ² 2 x 1.5 mm ²
tightening torque	0.6...1.1 N.m
Marking	CE
Surge withstand	0.5 kV during 1.2/50 µs conforming to 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	0.12 kg
Temperature coefficient	150 ppm/°C
Measurement error	+/- 0.5 % of full scale (3 or 4 wires) at 20 °C (temporary performance degradation when subject to electromagnetic interference) +/- 1 % of full scale (2 wires) at 20 °C (temporary performance degradation when subject to electromagnetic interference)
Repeat accuracy	+/- 0.2 % full scale at 20 °C +/- 0.6 % full scale at 60 °C

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
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Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Standards	IEC 60584-1 IEC 60751 DIN 43760 IEC 60947-1
Product certifications	GL UL CSA
IP degree of protection	IP20 (terminal block) IP50 (housing)
Fire resistance	850 °C conforming to IEC 60695-2-1 850 °C conforming to UL
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	5 gn (f= 10...100 Hz) conforming to IEC 60068-2-6
Resistance to fast transients	1 kV (on input-output) conforming to IEC 61000-4-4 2 kV (on power supply) conforming to IEC 61000-4-4
Disturbance radiated/conducted	CISPR 22 group 1 - class B CISPR 11
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	0...50 °C mounting side by side 0...60 °C 2 cm spacing
Pollution degree	2 conforming to IEC 60664-1

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.7 cm
Package 1 Width	8.2 cm
Package 1 Length	8.5 cm
Package 1 Weight	105 g

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Longer

Lifetime extension	
Repair	No