Specifications



Converter for Optimum Pt100 probes, Harmony Analog, temperature transmitter, 0...500 degree COr 32...932 degree F

RMPT73BD

Main

Mann	
Range Of Product	Harmony Analog
Product Or Component Type	Converter for Optimum Pt100 probes
Analogue Input Type	Temperature probe 0500 °C/32932 °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	Overvoltage protection on output (+/- 30 V) Reverse polarity protection on power supply Short-circuit protection on output Reverse polarity protection on output
Abnormal Analogue Output Voltage	-1511 V when no input or input wire broken 1115 V when no input or input wire broken
Abnormal Analogue Output Current	-300 mA when no input or input wire broken 2230 mA when no input or input wire broken
[Us] Rated Supply Voltage	24 V DC non isolated +/- 20 %
Current Consumption	<= 40 mA for voltage output <= 60 mA for current output
Local Signalling	LED (green) for power ON
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
Temperature Coefficient	150 ppm/°C
Maximum Wiring Resistance	0.2 Ohm connection in 2 wires
Clamping Connection Capacity	2 x 1.5 mm² 1 x 2.5 mm²
Tightening Torque	0.61.1 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 = 43.9 years B10d = 40564
Net Weight	0.12 kg

Environment

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
DIN 43760
IEC 60584-1
IEC 60947-1
IEC 60751
GL
UL
CSA
IP20 (terminal block)
IP50 (housing)
850 °C conforming to IEC 60695-2-1
850 °C conforming to UL
50 gn for 11 ms conforming to IEC 60068-2-27
5 gn (f= 10100 Hz) conforming to IEC 60068-2-6
1 kV (on input-output) conforming to IEC 61000-4-4
2 kV (on power supply) conforming to IEC 61000-4-4
CISPR 11
CISPR 22 group 1 - class B
-4085 °C
050 °C mounting side by side
060 °C 2 cm spacing

Packing Units

PCE
1
2.7 cm
8.2 cm
8.5 cm
109.0 g
S02
47
15.0 cm
30.0 cm
40.0 cm
5.214 kg

Contractual warranty

Warranty

18 months

Sustainability

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.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



Eq

Rohs Exemption Information Yes

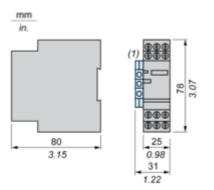
Certifications & Standards

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
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

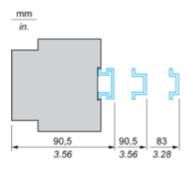


(1) Terminal block AB1TP435U or AB1RRNTP435U2

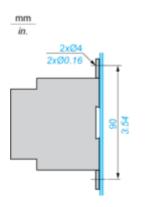
Mounting and Clearance

Mounting

Mounting on Rails AM1



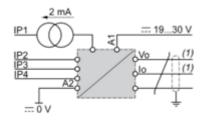
Panel Mounting



Connections and Schema

Analog Interface: Converter for Optimum Pt100 Probe

Wiring Diagram



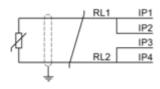
(1) Use 1 output only.

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

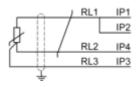
The supply, input and output cables must be shielded as indicated in the schemes and must be kept away from each other.

Input Connections

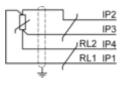
2-wire type



RL1 + RL2 ≤ 200 mΩ 3-wire type



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



RL1 + RL2 ≤ 200 Ω