Product data sheet

Specification





Converter for thermocouples, Harmony Analog, temperature transmitter, 0...1200 degree COr 32...2192 degree F

RMTK90BD

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 thermocouples
Analogue input type	Thermocouple 01200 °C/322192 °F thermocouple K IEC 60584
Analogue output type	Current 020 mA <= 500 Ohm Current 420 mA <= 500 Ohm Voltage 010 V >= 100 kOhm

Complementary

Protection Type	Overvoltage protection on output (+/- 30 V) Reverse polarity protection on output 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
[Us] rated supply voltage	24 V DC +/- 20 %, non isolated
Current consumption	<= 40 mA voltage <= 40 mA voltage output <= 60 mA current
Local signalling	for power ON LED (green)
Measurement error	+/- 1 % of full scale 20 °C temporary performance degradation when subject to electromagnetic interference)
Repeat accuracy	+/- 0.25 % full scale 20 °C +/- 0.8 % full scale 60 °C
Temperature Coefficient	200 ppm/°C
Cold junction compensation	Built-in between 0 and 60 °C
Clamping Connection Capacity	2 x 1.5 mm ² 1 x 2.5 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	2 kV
Fixing mode	By screws (mounting plate) Clip-on (35 mm symmetrical DIN rail)

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	MTTFd = 49.2 years B10d = 45447
Net Weight	0.26 lb(US) (0.12 kg)

Environment

Standards	IEC 60584-1 IEC 60947-1
Product Certifications	GL UL CSA
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 electrostatic discharge	6 kV in contact)IEC 61000-4-2 level 3 8 kV in air)IEC 61000-4-2 level 3
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	3389110109061	
Returnability	Yes	
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	3.6 oz (101.0 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

11.581 lb(US) (5.253 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.

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.
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

Jul 23, 2024

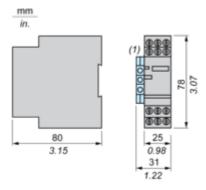
Product data sheet

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Dimensions Drawings

Analog Interface (Converter)

Dimensions



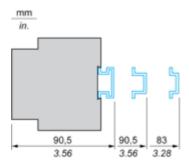
(1) Terminal block AB1TP435U or AB1RRNTP435U2

RMTK90BD

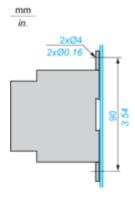
Mounting and Clearance

Mounting

Mounting on Rails AM1 *****



Panel Mounting



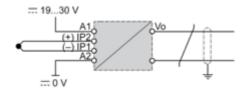
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Connections and Schema

Analog Interfaces

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