Product data sheet

Specifications

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 0...1200 °C/32...2192 °F thermocouple K IEC 60584
Analogue Output Type	Current 0...20 mA <= 500 Ohm Current 4...20 mA <= 500 Ohm Voltage 0...10 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	-15...-11 V no input or input wire broken 11...15 V no input or input wire broken
Abnormal Analogue Output Current	-30…0 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 mm² 1 x 2.5 mm²
Tightening Torque	5.31…9.74 lbf.in (0.6…1.1 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.

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

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 °F (850 °C) IEC 60695-2-1 1562 °F (850 °C) UL
Shock Resistance	50 gn 11 ms IEC 60068-2-27
Vibration Resistance	5 gn 10…100 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…185 °F (-40…85 °C)
Ambient Air Temperature For Operation	32…122 °F (0…50 °C) mounting side by side 32…140 °F (0…60 °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	3.23 in (8.2 cm)
Package 1 Length	3.35 in (8.5 cm)
Package 1 Weight	3.56 oz (101.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	47
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)

Package 2 Weight	11.58 lb(US) (5.253 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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

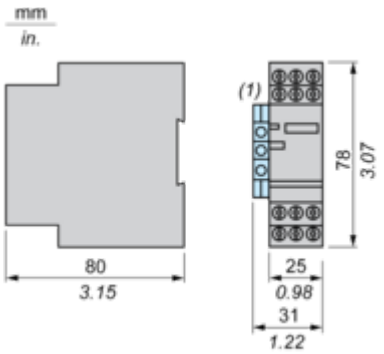
Certifications & Standards

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

Dimensions Drawings

Analog Interface (Converter)

Dimensions

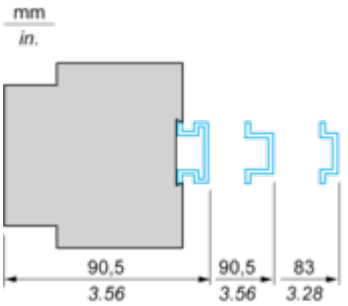


(1) Terminal block AB1TP435U or AB1RRNTP435U2

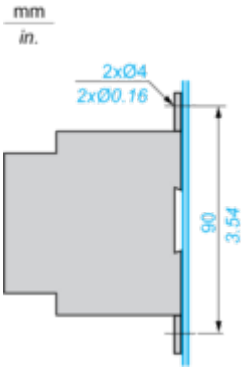
Mounting and Clearance

Mounting

Mounting on Rails AM1•••••



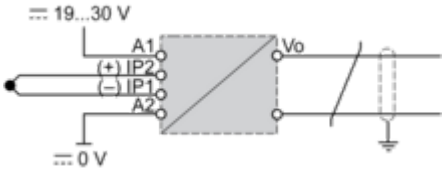
Panel Mounting



Connections and Schema

Analog 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.