

Product datasheet

Specifications



Isolated Analog Converter - 0..20 mA - for Harmony Analog

Local distributor code:

387098670

RMCL55BD

EAN Code: 3389110108897

Main

| | |
|---------------------------|--|
| Range Of Product | Harmony Analog |
| Product Or Component Type | Voltage/current converter |
| Analogue Input Type | Current 0...20 mA Current 4...20 mA Voltage +/- 10 V DC Voltage 0...10 V DC |
| Analogue Output Type | Current 0...20 mA <= 500 Ohm switchable Current 4...20 mA <= 500 Ohm switchable Voltage +/- 10 V >= 100 kOhm switchable Voltage 0...10 V >= 100 kOhm switchable |

Complementary

| | |
|----------------------------------|---|
| Protection Type | Reverse polarity protection on output Short-circuit protection on output Overvoltage protection on output (+/- 30 V) |
| Abnormal Analogue Output Voltage | 11...15 V, output selected - 10...10 V no input or input wire broken voltage 11...15 V, output selected 0...10 V no input or input wire broken voltage -15...0 V, output selected 0...20 mA no input or input wire broken current -15...0 V, output selected 4...20 mA no input or input wire broken current |
| Abnormal Analogue Output Current | 22...30 mA, output selected 0...20 mA no input or input wire broken voltage 22...30 mA, output selected 4...20 mA no input or input wire broken voltage -30...0 mA, output selected 0...20 mA no input or input wire broken current 4...30 mA, output selected 4...20 mA no input or input wire broken current |
| [Us] Rated Supply Voltage | 24 V DC +/- 20 %, isolated |
| Current Consumption | <= 70 mA for voltage output <= 90 mA for current output |
| Local Signalling | LED (green) for power ON |
| Measurement Error | +/- 5 % of full scale 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 | 200 ppm/°C |
| Clamping Connection Capacity | 2 x 1.5 mm ² 1 x 2.5 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 | 2 kV |
| Fixing Mode | By screws (mounting plate) Clip-on (35 mm symmetrical DIN rail) |

| | |
|--------------------------------|------------------------------------|
| Safety Reliability Data | B10d = 20000 MTTFd = 21.6 years |
| Net Weight | 0.12 kg |

Environment

| | |
|--|--|
| Standards | IEC 60947-1 IEC 60584-1 |
| Product Certifications | UL GL 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 Electrostatic Discharge | 6 kV (in contact) conforming to IEC 61000-4-2 level 3 8 kV (in air) conforming to IEC 61000-4-2 level 3 |
| 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 | 119.0 g |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 47 |
| Package 2 Height | 15 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 6.14 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-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](#)

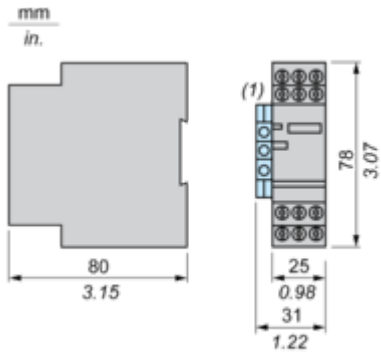
Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)

Dimensions Drawings

Analog Interface (Converter)

Dimensions

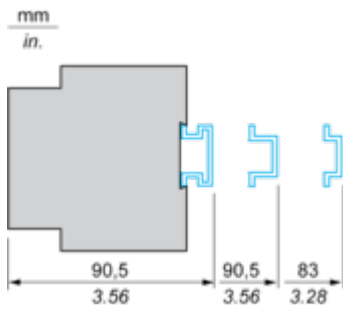


(1) Terminal block AB1TP435U or AB1RRNTP435U2

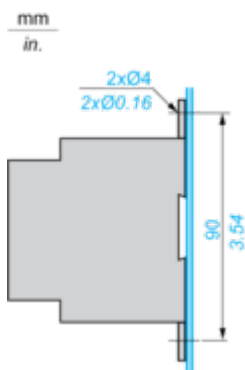
Mounting and Clearance

Mounting

Mounting on Rails AM1•••••



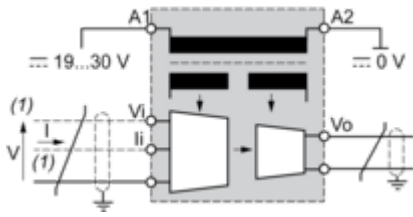
Panel Mounting



Connections and Schema

Analog Interface: Voltage/Current Converter

Wiring Diagram



(1) Use 1 input 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.