Product data sheet

Specifications



analogue input cartridge, Modicon M221, 2 analog inputs, IO extension

TMC2AI2

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon M221
Product or Component Type	Analogue input cartridge
Product Compatibility	Modicon M221C
Analogue input number	2

Complementary

Analogue input type	current 4...20 mA current 0...20 mA voltage 0...10 V
Analogue input resolution	12 bits
LSB value	2.44 mV 0...10 V voltage 4.88 µA 0...20 mA current 3.91 µA 4...20 mA current
Conversion time	20 ms
Sampling duration	10 ms
Absolute accuracy error	+/- 0.1 % of full scale at 77 °F (25 °C) +/- 1 % of full scale
Temperature Drift	+/- 0.02 %FS/°C
Repeat accuracy	+/- 0.5 %FS
Non-linearity	+/- 0.01 %FS
Cross talk	<= 1 LSB
Type of Cable	Twisted shielded pairs cable
Electrical connection	3 x 1.5 mm² 2 screw terminal blocks with pitch 3.81 mm adjustment for inputs
Maximum cable distance between devices	Twisted shielded pairs cable <98.4 ft (30 m) input
Insulation	Non-insulated between analogue input and internal logic
Height	1.6 in (41 mm)
Depth	0.6 in (15 mm)
Width	1.4 in (35 mm)
Product Weight	0.033 lb(US) (0.015 kg)
Permissible continuous overload	13 V voltage 40 mA current
Input impedance	<= 250 Ohm current >= 1 MOhm voltage

Environment

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

Immunity to microbreaks	10 ms

Ordering and shipping details

Category	US10MSX22533
Discount Schedule	0MSX
GTIN	3606480649080
Returnability	Yes
Country of origin	JP

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.415 in (3.594 cm)
Package 1 Width	1.847 in (4.692 cm)
Package 1 Length	2.779 in (7.059 cm)
Package weight(Lbs)	1.06 oz (30.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	75
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	7.30 lb(US) (3.31 kg)
Unit Type of Package 3	P12
Number of Units in Package 3	2400
Package 3 Height	29.5 in (75 cm)
Package 3 Width	47.2 in (120 cm)
Package 3 Length	31.5 in (80 cm)
Package 3 Weight	244.7 lb(US) (111 kg)

Contractual warranty

Warranty (in months)	18

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 >

Environmental footprint

Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
SCIP Number	963017c2-0ee7-421a-b0fc-ceb5386b4916
EU RoHS Directive	Compliant
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

Use Longer

Lifetime extension

Repair	No

Use Again

Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.