

TMC2TI2

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



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	Thermocouple - 200...1000 °C thermocouple J Thermocouple - 200...1300 °C thermocouple K Thermocouple 0...1760 °C thermocouple R Thermocouple 0...1760 °C thermocouple S Thermocouple 0...1820 °C thermocouple B Thermocouple - 200...400 °C thermocouple T Thermocouple - 200...1300 °C thermocouple N Thermocouple - 200...800 °C thermocouple E Thermocouple 0...2315 °C thermocouple C Ni 100/Ni 1000 temperature probe - 60...180 °C Pt 100 temperature probe - 200...850 °C Pt 1000 temperature probe - 200...600 °C
Analogue input resolution	14 bits
LSB value	0.1 °C
Sampling duration	125 Ms thermocouple 250 ms temperature probe
Absolute accuracy error	+/- 0.1 % of full scale at 77 °F (25 °C) for Pt 100/Pt 1000, Ni 100/ Ni 1000 temperature probe +/- 0.4 % of full scale at 77 °F (25 °C) for thermocouple K - 200...0 °C +/- 0.1 % of full scale at 77 °F (25 °C) for thermocouple K 0...1300 °C +/- 0.4 % of full scale at 77 °F (25 °C) for thermocouple J - 200...0 °C +/- 0.1 % of full scale at 77 °F (25 °C) for thermocouple J 0...1000 °C +/- 0.4 % of full scale at 77 °F (25 °C) for thermocouple E - 200...0 °C +/- 0.1 % of full scale at 77 °F (25 °C) for thermocouple E 0...800 °C +/- 0.4 % of full scale at 77 °F (25 °C) for thermocouple T - 200...0 °C +/- 0.1 % of full scale at 77 °F (25 °C) for thermocouple T 0...400 °C +/- 0.4 % of full scale at 77 °F (25 °C) for thermocouple N - 200...0 °C +/- 0.1 % of full scale at 77 °F (25 °C) for thermocouple N 0...1300 °C +/- 6 °C at 77 °F (25 °C) for thermocouple R, S 0...200 °C +/- 0.1 % of full scale at 77 °F (25 °C) for thermocouple R, S 200...1760 °C +/- 0.1 % of full scale at 77 °F (25 °C) for thermocouple C 0...2315 °C
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 mm ² 2 screw terminal blocks pitch 3.81 mm for inputs
Maximum cable distance between devices	Twisted shielded pairs cable <98.43 ft (30 m) input
Insulation	Non-insulated between analogue input and internal logic
Height	1.61 in (41 mm)
Depth	0.59 in (15 mm)
Width	1.38 in (35 mm)

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Net Weight	0.03 lb(US) (0.015 kg)
Input impedance	>= 1 MOhm

Environment

Immunity to microbreaks	10 ms
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Ordering and shipping details

Category	22533-M2XX PLC & ACCESSORIES
Discount Schedule	MSX
GTIN	3606480649158
Returnability	Yes
Country of origin	JP

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.38 in (3.5 cm)
Package 1 Width	2.76 in (7.0 cm)
Package 1 Length	1.81 in (4.6 cm)
Package 1 Weight	0.71 oz (20.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	75
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	7.33 lb(US) (3.324 kg)
Unit Type of Package 3	P12
Number of Units in Package 3	2400
Package 3 Height	39.37 in (100 cm)
Package 3 Width	49.21 in (125 cm)
Package 3 Length	21.65 in (55 cm)
Package 3 Weight	165.35 lb(US) (75 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
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
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
PVC free	Yes