Product datasheet

Specifications





Modicon M221, Analogue input cartridge, 2 temperature inputs, I/O extension

TMC2TI2

Main

Main	
Range Of Product	Modicon M221
Product Or Component Type	Analogue input cartridge
Product Compatibility	Modicon M221C
Analogue Input Number	2

Complementary

Complementary	
Analogue Input Type	thermocouple - 2001000 °C with thermocouple J thermocouple - 2001300 °C with thermocouple K thermocouple 01760 °C with thermocouple R thermocouple 01760 °C with thermocouple S thermocouple 01820 °C with thermocouple B thermocouple - 200400 °C with thermocouple T thermocouple - 2001300 °C with thermocouple N thermocouple - 200800 °C with thermocouple R thermocouple - 200800 °C with thermocouple C Ni 100/Ni 1000 temperature probe - 60180 °C Pt 100 temperature probe - 200850 °C
	Pt 1000 temperature probe - 200600 °C
Analogue Input Resolution	14 bits
Lsb Value	0.1 °C
Sampling Duration	125 ms, analogue input type: thermocouple 250 ms, analogue input type: temperature probe
Absolute Accuracy Error	+/- 0.1 % of full scale at 25 °C for Pt 100/Pt 1000, Ni 100/ Ni 1000 temperature probe +/- 0.4 % of full scale at 25 °C for thermocouple K - 2000 °C +/- 0.1 % of full scale at 25 °C for thermocouple K 01300 °C +/- 0.4 % of full scale at 25 °C for thermocouple J - 2000 °C +/- 0.1 % of full scale at 25 °C for thermocouple J 01000 °C +/- 0.4 % of full scale at 25 °C for thermocouple E - 2000 °C +/- 0.4 % of full scale at 25 °C for thermocouple E - 2000 °C +/- 0.1 % of full scale at 25 °C for thermocouple E - 2000 °C +/- 0.1 % of full scale at 25 °C for thermocouple T - 2000 °C +/- 0.1 % of full scale at 25 °C for thermocouple T - 2000 °C +/- 0.1 % of full scale at 25 °C for thermocouple N - 2000 °C +/- 0.4 % of full scale at 25 °C for thermocouple N - 2000 °C +/- 0.1 % of full scale at 25 °C for thermocouple N - 2000 °C +/- 0.1 % of full scale at 25 °C for thermocouple N - 2000 °C +/- 0.1 % of full scale at 25 °C for thermocouple N - 2000 °C +/- 0.1 % of full scale at 25 °C for thermocouple N - 2000 °C +/- 0.1 % of full scale at 25 °C for thermocouple N - 2000 °C +/- 0.1 % of full scale at 25 °C for thermocouple N - 2000 °C +/- 0.1 % of full scale at 25 °C for thermocouple R, S 2001760 °C +/- 0.1 % of full scale at 25 °C for thermocouple C 02315 °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 with pitch 3.81 mm adjustment for inputs
Maximum Cable Distance Between Devices	Twisted shielded pairs cable: <30 m for input

Insulation	Non-insulated between analogue input and internal logic
Height	41 mm
Depth	15 mm
Width	35 mm
Net Weight	0.015 kg
Input Impedance	>= 1 MOhm

Environment

Immunity To Microbreaks

10 ms

Packing Units

-	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.5 cm
Package 1 Width	7.0 cm
Package 1 Length	4.6 cm
Package 1 Weight	20.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	75
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	3.324 kg
Unit Type Of Package 3	P12
Number Of Units In Package 3	2400
Package 3 Height	100 cm
Package 3 Width	125 cm
Package 3 Length	55 cm
Package 3 Weight	75 kg

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

Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information