

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

TMC2TI2

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 E thermocouple 02315 °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 +/- 0.1 % of full scale at 25 °C for thermocouple E 0800 °C +/- 0.4 % of full scale at 25 °C for thermocouple T - 2000 °C +/- 0.4 % of full scale at 25 °C for thermocouple T - 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 01300 °C +/- 0.1 % of full scale at 25 °C for thermocouple R, S 0200 °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	

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Insulation	Non-insulated between analogue input and internal logic	Non-insulated between analogue input and internal logic	
Height	41 mm	41 mm	
Depth	15 mm		
Width	35 mm		
Product 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	3.500 cm
Package 1 Width	4.500 cm
Package 1 Length	7.000 cm
Package 1 Weight	40.000 g



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Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Total lifecycle Carbon footprint	5
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
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 Again

○ Repack and remanufacture	
End of life manual availability	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