Product data sheet
Characteristics

TMC2TI2
cartridge M221 - 2 temperature inputs - I/O 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	Temperature probe, input range: - 200...600 °C (Pt 1000) Temperature probe, input range: - 200...850 °C (Pt 100) Temperature probe, input range: - 60...180 °C (Ni 100/Ni 1000) Thermocouple, input range: 0...2315 °C for thermocouple C Thermocouple, input range: - 200...800 °C for thermocouple E Thermocouple, input range: - 200...1300 °C for thermocouple N Thermocouple, input range: - 200...400 °C for thermocouple T Thermocouple, input range: 0...1820 °C for thermocouple B Thermocouple, input range: 0...1760 °C for thermocouple S Thermocouple, input range: 0...1760 °C for thermocouple R Thermocouple, input range: - 200...1300 °C for thermocouple K Thermocouple, input range: - 200...1000 °C for thermocouple J
Analogue input resolution	14 bits
LSB value	0.1 °C
Sampling duration	250 ms (temperature probe) 125 ms (thermocouple)
Absolute accuracy error	+/- 0.1 % of full scale (Pt 100/Pt 1000, Ni 100/ Ni 1000) at 25 °C +/- 0.4 % of full scale for thermocouple N at <= 0 °C +/- 0.4 % of full scale for thermocouple E at <= 0 °C +/- 0.4 % of full scale for thermocouple T at <= 0 °C +/- 0.4 % of full scale for thermocouple K at <= 0 °C +/- 0.4 % of full scale for thermocouple J at <= 0 °C +/- 0.1 % of full scale for thermocouple N at 25 °C +/- 0.1 % of full scale for thermocouple E at 25 °C +/- 0.1 % of full scale for thermocouple T at 25 °C +/- 0.1 % of full scale for thermocouple K at 25 °C +/- 0.1 % of full scale for thermocouple J at 25 °C +/- 0.1 % of full scale for thermocouple C at 25 °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	2 screw terminal blocks (pitch 3.81 mm) 1.5 mm² 3 for inputs
Cable length	<= 30 m twisted shielded pairs cable (input)
Insulation	Non-insulated between analogue input and internal logic
Height	41 mm
Depth	15 mm
Width	35 mm

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Product weight	0.015 kg
Input impedance	>= 1 MOhm

Environment

Immunity to microbreaks	10 ms

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1415 - Schneider Electric declaration of conformity
REACh	Reference contains SVHC above the threshold - go to CaP for more details
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Available Download End Of Life Manual