

# TMC2AI2

cartridge M221 - 2 analog current inputs - I/O extension



## Main

Commercial Status	Commercialised
Range of product	Modicon M221
Product or component type	Analogue input cartridge
Product compatibility	Modicon M221C
Analogue input number	2

## Complementary

Analogue input type	Voltage, input range: 0...10 V Current, input range: 0...20 mA Current, input range: 4...20 mA
Analogue input resolution	12 bits
Permissible continuous overload	40 mA (current) 13 V (voltage)
Input impedance	>= 1 MOhm (voltage) <= 250 Ohm (current)
LSB value	3.91 µA (current), input range: 4...20 mA 4.88 µA (current), input range: 0...20 mA 2.44 mV (voltage), input range: 0...10 V
Conversion time	20 ms
Sampling duration	10 ms
Absolute accuracy error	+/- 1 % of full scale +/- 0.1 % of full scale 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 mm <sup>2</sup> 3 for inputs
Cable length	<= 30 m twisted shielded pairs cable (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)
Product weight	0.03 lb(US) (0.015 kg)

## Environment

Immunity to microbreaks	10 ms
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