

Product data sheet

Specifications



analogue output cartridge,
Modicon M221, 2 analog voltage
outputs, IO extension

TMC2AQ2V

Main

Range Of Product	Modicon M221
Product Or Component Type	Analogue output cartridge
Product Compatibility	Modicon M221C

Complementary

Analogue Output Number	2
Analogue Output Type	Voltage 0...10 V
Analogue Output Resolution	12 bits
LSb Value	2.44 mV 0...10 V voltage
Load Type	Resistive
Load Impedance Ohmic	$\geq 2 \text{ k}\Omega$
Conversion Time	20 ms
Stabilisation Time	40 ms
Absolute Accuracy Error	+/- 1 % of full scale +/- 0.3 % of full scale at 77 °F (25 °C)
Temperature Drift	+/- 0.02 %FS/°C
Repeat Accuracy	+/- 0.4 %FS
Non-Linearity	+/- 0.01 %FS
Cross Talk	$\leq 1 \text{ LSB}$
Type Of Cable	Twisted shielded pairs cable
Electrical Connection	3 x 1.5 mm ² 2 screw terminal blocks pitch 3.81 mm for outputs
Maximum Cable Distance Between Devices	Twisted shielded pairs cable <98.43 ft (30 m) output
Insulation	Non-insulated between analogue output and internal logic
Height	1.61 in (41 mm)
Depth	0.59 in (15 mm)
Width	1.38 in (35 mm)
Net Weight	0.03 lb(US) (0.015 kg)

Environment

Immunity To Microbreaks	10 ms
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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	7.40 lb(US) (3.356 kg)
Unit Type Of Package 3	P06
Number Of Units In Package 3	1200
Package 3 Height	29.53 in (75 cm)
Package 3 Width	23.62 in (60 cm)
Package 3 Length	31.50 in (80 cm)
Package 3 Weight	165.35 lb(US) (75 kg)

Sustainability

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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](#)
