Product data sheet

Specification





analog output module, Modicon TM3, 4 outputs, spring, 24V DC

TM3AQ4G

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 263.00 USD

Main

Range Of Product	Modicon TM3
Product Or Component Type	Analog output module
Range Compatibility	Modicon M221
	Modicon M241
	Modicon M251
	Modicon M262
Analogue Output Number	4
Analogue Output Type	Current 420 mA
	Current 020 mA
	Voltage 010 V
	Voltage - 1010 V
	-

Complementary

Analogue Input Resolution	12 bits
	11 bits + sign
Analogue Output Resolution	12 bits
	11 bits + sign
Lsb Value	2.44 mV 010 V voltage
	4.88 mV - 1010 V voltage
	4.88 μA 020 mA current
	3.91 µA 420 mA current
Load Type	Resistive
Load Impedance Ohmic	1 kOhm voltage
	300 Ohm current
Stabilisation Time	1 ms
Conversion Time	1 ms + 1 ms per channel + 1 controller cycle time
Absolute Accuracy Error	+/- 1 % of full scale
	+/- 0.2 % of full scale at 77 °F (25 °C)
Temperature Drift	+/- 0.01 %FS/°C
Repeat Accuracy	+/- 0.4 %FS
Non-Linearity	+/- 0.2 %FS
Output Ripple	20 mV
Cross Talk	<= 1 LSB
[Us] Rated Supply Voltage	24 V DC
Supply Voltage Limits	20.428.8 V
Type Of Cable	Twisted shielded pairs cable <98.43 ft (30 m) output

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Current Consumption	40 mA 5 V DC via bus connector no load
	50 mA 5 V DC via bus connector full load
	50 mA 24 V DC via external supply no load
	125 mA 24 V DC via external supply full load
Local Signalling	for PWR 1 LED (green)
Electrical Connection	11 x 2.5 mm² removable spring terminal block pitch 5.08 mm for outputs and supply
Insulation	Between output and supply 1500 V AC
	Between output and internal logic 500 V AC
Marking	CE
Surge Withstand	1 kV power supply common mode IEC 61000-4-5
	0.5 kV power supply differential mode IEC 61000-4-5
	1 kV output common mode IEC 61000-4-5
Mounting Support	Top hat type TH35-15 rail IEC 60715
	Top hat type TH35-7.5 rail IEC 60715
	plate or panel with fixing kit
Height	3.54 in (90 mm)
Depth	2.76 in (70 mm)
Width	0.93 in (23.6 mm)
Net Weight	0.22 lb(US) (0.1 kg)

Environment

Standards	IEC 61131-2
Product Certifications	CE UKCA RCM EAC cULus cULus HazLoc
Resistance To Electrostatic Discharge	8 kV in air IEC 61000-4-2 4 kV on contact IEC 61000-4-2
Resistance To Electromagnetic Fields	9.14 V/m (10 V/m) 80 MHz1 GHz IEC 61000-4-3 2.74 V/m (3 V/m) 1.4 GHz2 GHz IEC 61000-4-3 0.91 V/m (1 V/m) 2 GHz3 GHz IEC 61000-4-3
Resistance To Magnetic Fields	98.43 A/m (30 A/m) IEC 61000-4-8
Resistance To Fast Transients	1 kV IEC 61000-4-4 I/O)
Resistance To Conducted Disturbances	10 V 0.1580 MHz IEC 61000-4-6 3 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) Marine specification (LR, ABS, DNV, GL)
Electromagnetic Emission	Radiated emissions 40 dBµV/m QP class A 10 m)30230 MHz IEC 55011 Radiated emissions 47 dBµV/m QP class A 10 m)2301000 MHz IEC 55011
Immunity To Microbreaks	10 ms
Ambient Air Temperature For Operation	14131 °F (-1055 °C) horizontal installation 1495 °F (-1035 °C) vertical installation
Ambient Air Temperature For Storage	-13158 °F (-2570 °C)
Relative Humidity	1095 %, without condensation in operation) 1095 %, without condensation in storage)
Ip Degree Of Protection	IP20
Pollution Degree	2
Operating Altitude	06561.68 ft (02000 m)
Storage Altitude	0.009842.52 ft (03000 m)

Vibration Resistance	3.5 mm 58.4 Hz DIN rail 3 gn 8.4150 Hz DIN rail
Shock Resistance	15 gn 11 ms

Ordering and shipping details

Category	US10MSX22533
Discount Schedule	0MSX
Gtin	3606480648991
Returnability	No
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.95 in (7.5 cm)
Package 1 Width	4.92 in (12.5 cm)
Package 1 Length	4.13 in (10.5 cm)
Package 1 Weight	7.05 oz (200.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	9
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	5.11 lb(US) (2.316 kg)
Unit Type Of Package 3	P12
Number Of Units In Package 3	288
Package 3 Height	29.53 in (75 cm)
Package 3 Width	47.24 in (120 cm)
Package 3 Length	31.50 in (80 cm)
Package 3 Weight	182.98 lb(US) (83 kg)



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

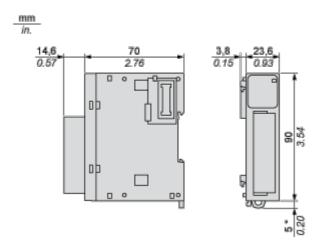
Ø	Toxic Heavy Metal Free
	Mercury Free
②	Rohs Exemption Information Yes
	Pvc Free

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
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
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

Dimensions Drawings

Dimensions

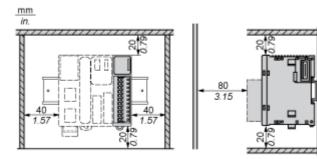


(*) 8.5 mm/0.33 in when the clamp is pulled out.

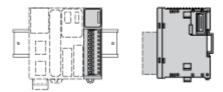
TM3AQ4G

Mounting and Clearance

Spacing Requirements



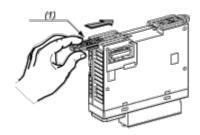
Mounting on a Rail



Incorrect Mounting

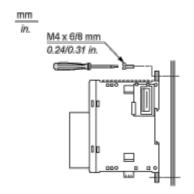


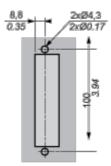
Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout



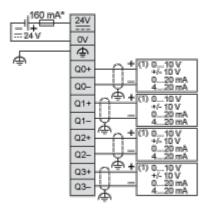


TM3AQ4G

Connections and Schema

Analogue Output Module

Wiring Diagram (Current / Voltage)



- (*) Type T fuse
- (1) Voltage/current pre-actuator