Product datasheet





Modicon TM3 - 2 analog outputs (spring) 24Vdc

TM3AQ2G

EAN Code: 3606480648977

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	2	
Analogue Output Type	Current: 420 mA	
	Current: 020 mA	
	Voltage: 010 V	
	Voltage: - 1010 V	

Complementary

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Analogue Input Resolution	12 bits
	11 bits + sign
Analogue Output Resolution	11 bits + sign
	12 bits
Lsb Value	2.44 mV 010 Vvoltage
	4.88 mV - 1010 Vvoltage
	4.88 μA 020 mAcurrent
	3.91 µA 420 mAcurrent
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	+/- 0.1 % of full scale at 25 °C
	+/- 1 % of full scale
Temperature Drift	+/- 0.006 %FS/°C
Repeat Accuracy	+/- 0.4 %FS
Non-Linearity	+/- 0.01 %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 <30 m for output circuit

Current Consumption	40 mA at 5 V DC via bus connector full load 35 mA at 5 V DC via bus connector no load 30 mA at 24 V DC via external supply no load 70 mA at 24 V DC via external supply full load	
Local Signalling	1 LED (green) for PWR	
Electrical Connection	11 x 2.5 mm² removable spring terminal block with pitch 5.08 mm adjustment for outputs and supply	
Insulation	Between output and supply at 1500 V AC Between output and internal logic at 500 V AC	
Marking	CE	
Surge Withstand	1 kV power supply common mode conforming to IEC 61000-4-5 0.5 kV power supply differential mode conforming to IEC 61000-4-5 1 kV output common mode conforming to IEC 61000-4-5	
Mounting Support	Top hat type TH35-15 rail conforming to IEC 60715 Top hat type TH35-7.5 rail conforming to IEC 60715 plate or panel with fixing kit	
Height	90 mm	
Depth	70 mm	
Width	23.6 mm	
Net Weight	0.1 kg	

Environment

Standards	IEC 61131-2	
Product Certifications	CE	
	UKCA	
	RCM	
	EAC	
	cULus	
	cULus HazLoc	
Resistance To Electrostatic	8 kV in air conforming to IEC 61000-4-2	
Discharge		
	4 kV on contact conforming to IEC 61000-4-2	
Resistance To Electromagnetic	10 V/m 80 MHz1 GHz conforming to IEC 61000-4-3	
Fields	3 V/m 1.4 GHz2 GHz conforming to IEC 61000-4-3	
	1 V/m 2 GHz3 GHz conforming to IEC 61000-4-3	
Resistance To Magnetic Fields	30 A/m conforming to IEC 61000-4-8	
Resistance To Fast Transients	nsients 1 kV (I/O) conforming to IEC 61000-4-4	
Resistance To Conducted	10 V 0.1580 MHz conforming to IEC 61000-4-6	
Disturbances	3 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) conforming to	
	Marine specification (LR, ABS, DNV, GL)	
Electronic dia Englishian		
Electromagnetic Emission	Radiated emissions - test level: 40 dBµV/m QP class A (10 m) at 30230 MHz	
	conforming to IEC 55011	
	Radiated emissions - test level: 47 dBμV/m QP class A (10 m) at 2301000 MHz	
	conforming to IEC 55011	
Immunity To Microbreaks	10 ms	
Ambient Air Temperature For	-1055 °C horizontal installation	
Operation ·	-1035 °C vertical installation	
Ambient Air Temperature For Storage	-2570 °C	
Relative Humidity	10 OF 9/ without condensation (in energtion)	
neiauve numunty	1095 %, without condensation (in operation)	
	1095 %, without condensation (in storage)	
lp Degree Of Protection	IP20	
Pollution Degree	2	
Operating Altitude	02000 m	

Storage Altitude	03000 m
Vibration Resistance	3.5 mm at 58.4 Hz on DIN rail 3 gn at 8.4150 Hz on DIN rail
Shock Resistance	15 an for 11 ms

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	12.5 cm
Package 1 Length	10.5 cm
Package 1 Weight	200.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	9
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	2.255 kg
Unit Type Of Package 3	P12
Number Of Units In Package 3	288
Package 3 Height	75 cm
Package 3 Width	120 cm
Package 3 Length	80 cm
Package 3 Weight	82 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

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

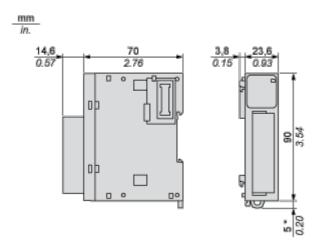
Certifications & Standards

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

6 May 2024

Dimensions Drawings

Dimensions

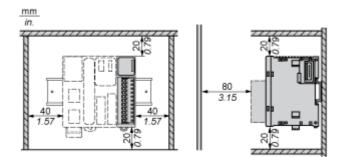


(*) 8.5 mm/0.33 in when the clamp is pulled out.

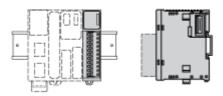
TM3AQ2G

Mounting and Clearance

Spacing Requirements



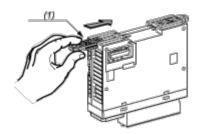
Mounting on a Rail



Incorrect Mounting

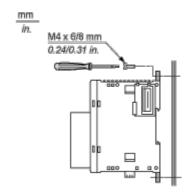


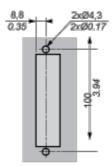
Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout



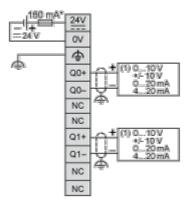


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Connections and Schema

Analogue Output Module

Wiring Diagram (Current / Voltage)



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