



analog output module, Modicon TM3, 2 outputs, screw, 24V DC

TM3AQ2

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

Complementary		
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	lance 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	able 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	$11x2.5~\text{mm}^2$ removable screw 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	t 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	0.115 kg	

Environment

Product Certifications	CE UKCA RCM EAC cULus cULus
	COLUS FIAZLOC
Resistance To Electrostatic Discharge	8 kV in air conforming to IEC 61000-4-2 4 kV on contact conforming to IEC 61000-4-2
Resistance To Electromagnetic Fields	10 V/m 80 MHz1 GHz conforming to IEC 61000-4-3 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 1 kV (I/O) conforming to IEC 61000-4-4	
Resistance To Conducted Disturbances	10 V 0.1580 MHz conforming to IEC 61000-4-6 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)
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	1095 %, without condensation (in operation) 1095 %, without condensation (in storage)
p Degree Of Protection	IP20
Pollution Degree	2
Operating Altitude	02000 m
Storage Altitude	03000 m
/ibration Resistance	3.5 mm at 58.4 Hz on DIN rail 3 gn at 8.4150 Hz on DIN rail
Shock Resistance	15 gn for 11 ms

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.566 cm
Package 1 Width	10.629 cm
Package 1 Length	12.698 cm
Package 1 Weight	220.0 g
Unit Type Of Package 2	S04
Number Of Units In Package 2	42
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	10.32 kg
Unit Type Of Package 3	P12
Number Of Units In Package 3	336
Package 3 Height	75 cm
Package 3 Width	120 cm
Package 3 Length	80 cm
Package 3 Weight	94 kg

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

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

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

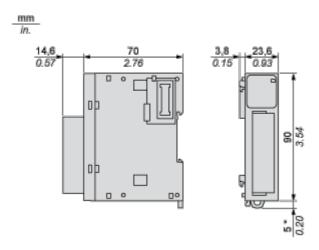
⊘	Toxic Heavy Metal Free	
Ø	Mercury Free	
②	Rohs Exemption Information	Yes
Ø	Pvc Free	

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

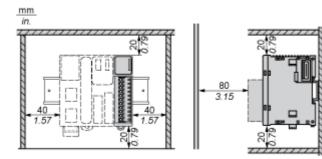
Dimensions



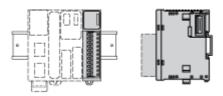
(*) 8.5 mm/0.33 in when the clamp is pulled out.

Mounting and Clearance

Spacing Requirements



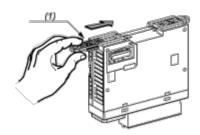
Mounting on a Rail



Incorrect Mounting

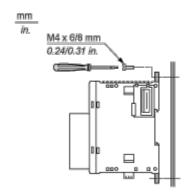


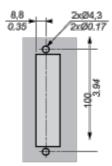
Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout



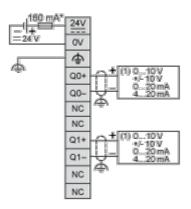


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Connections and Schema

Analogue Output Module

Wiring Diagram (Current / Voltage)



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