

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

TM3AQ4

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	11 bits + sign
Analogue Output Nesolution	12 bits
	12 DIIS
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	+/- 1 % of full scale
•	+/- 0.2 % of full scale at 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 <30 m for output circuit

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Current Consumption	40 mA at 5 V DC via bus connector no load 50 mA at 5 V DC via bus connector full load 50 mA at 24 V DC via external supply no load 125 mA at 24 V DC via external supply full load
Local Signalling	1 LED (green) for PWR
Electrical Connection	11 x 2.5 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	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

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	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 QE % without condensation (in energies)
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 gn for 11 ms

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.500 cm
Package 1 Width	10.700 cm
Package 1 Length	12.500 cm
Package 1 Weight	198.000 g
Unit Type Of Package 2	S04
Number Of Units In Package 2	42
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	9.030 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

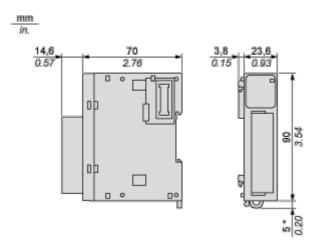


Certifications & Standards

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

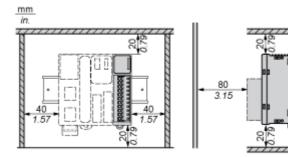
Dimensions



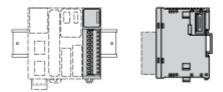
(*) 8.5 mm/0.33 in when the clamp is pulled out.

Mounting and Clearance

Spacing Requirements



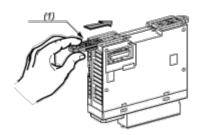
Mounting on a Rail



Incorrect Mounting

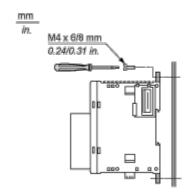


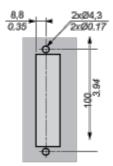
Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout



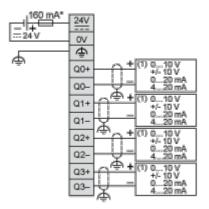


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Connections and Schema

Analogue Output Module

Wiring Diagram (Current / Voltage)



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