



# Modicon TM3 - 4 analog outputs (spring) 24Vdc

TM3AQ4G

EAN Code: 3606480648991

### 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

nalogue input resolution 12 bits 11 bits + sign		
Analogue output resolution	12 bits 11 bits + sign	
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	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 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 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 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 dB $\mu$ V/m QP class A ( 10 m) at 30230 MHz conforming to IEC 55011 Radiated emissions - test level: 47 dB $\mu$ V/m QP class A ( 10 m) at 2301000 MHz conforming to IEC 55011	
Immunity to microbreaks	10 ms	
Ambient air temperature for operation -1055 °C horizontal installation -1035 °C vertical installation		
Ambient air temperature for storage	-2570 °C	
Relative humidity	1095 %, without condensation (in operation) 1095 %, without condensation (in storage)	
IP 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**

PCE
1
7.5 cm
12.5 cm
10.5 cm
200.0 g
S02
9
15 cm
30 cm
40 cm
2.316 kg
P12
288
75 cm
120 cm
80 cm
83 kg

# **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

### Well-being performance

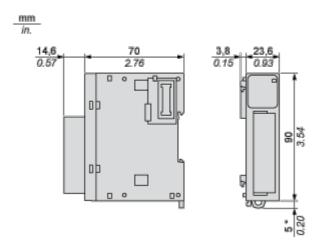
	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>②</b>	Rohs Exemption Information	Yes

#### **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

### **Dimensions Drawings**

#### **Dimensions**

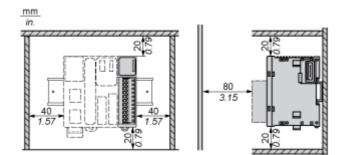


(\*) 8.5 mm/0.33 in when the clamp is pulled out.

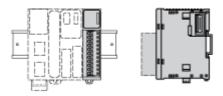
# TM3AQ4G

# Mounting and Clearance

### **Spacing Requirements**



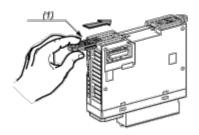
### Mounting on a Rail



### **Incorrect Mounting**

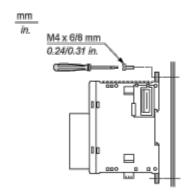


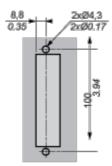
#### Mounting on a Panel Surface



(1) Install a mounting strip

### **Mounting Hole Layout**



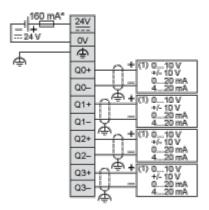


### TM3AQ4G

Connections and Schema

### Analogue Output Module

#### Wiring Diagram (Current / Voltage)



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