## TM3AM6G

# module TM3 - 4 analog inputs and 2 analog outputs spring



Product availability: Stock - Normally stocked in distribution facility



Main	
Range of product	Modicon TM3
Product or component type	Input/output analog module
Range compatibility	Modicon M251 Modicon M221 Modicon M241
Analogue input number	4
Analogue input type	Current, analogue input range: 420 mA Current, analogue input range: 020 mA Voltage, analogue input range: 010 V Voltage, analogue input range: - 1010 V
Analogue output num- ber	2
Analogue output type	420 mA current 020 mA current 010 V voltage - 1010 V voltage

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Complementary		
Analogue input resolution	11 bits + sign 12 bits	
Permissible continuous overload	13 V voltage 40 mA current	
Input impedance	<= 50 Ohm current >= 1 MOhm voltage	
Analogue output resolution	11 bits + sign 12 bits	
LSB value	2.44 mV, analogue input: 010 V voltage 4.88 mV, analogue input: - 1010 V voltage 4.88 μA, analogue input: 020 mA current 3.91 μA, analogue input: 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	
Sampling duration	1 ms 10 ms	
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	+/-0.5 %FS input +/-0.5 %FS output	
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 input/output circuit	
Current consumption	45 mA at 5 V DC (no load) via bus connector 55 mA at 5 V DC (full load) via bus connector 55 mA at 24 V DC (no load) via external supply 100 mA at 24 V DC (full load) via external supply	

Local signalling	1 LED green PWR
Electrical connection	10 x 1.5 mm² removable spring terminal block with pitch 3.81 mm adjustment for inputs 10 x 1.5 mm² removable spring terminal block with pitch 3.81 mm adjustment for
	inputs, outputs and supply
Insulation	500 V AC between output and internal logic
	500 V AC between input and internal logic
	1500 V AC between input and supply
	1500 V AC between output and supply
Marking	CE
Surge withstand	1 kV for power supply with common mode protection conforming to EN/IEC 61000-4-5
	0.5 kV for power supply with differential mode protection conforming to EN/IEC 61000-4-5
	1 kV for I/O with common mode protection conforming to EN/IEC 61000-4-5 0.5 kV for I/O with differential mode protection conforming to EN/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	3.54 in (90 mm)
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Depth	2.76 in (70 mm)
Width	0.93 in (23.6 mm)
Product weight	0.22 lb(US) (0.1 kg)

#### Environment

Standards	EN/IEC 61010-2-201 EN/IEC 61131-2
Resistance to electrostatic discharge	4 kV on contact conforming to EN/IEC 61000-4-2 8 kV in air conforming to EN/IEC 61000-4-2
Resistance to electromagnetic fields	9.14 V/yd (10 V/m) at 80 MHz1 GHz conforming to EN/IEC 61000-4-3 2.74 V/yd (3 V/m) at 1.4 GHz2 GHz conforming to EN/IEC 61000-4-3 0.91 V/yd (1 V/m) at 2 GHz3 GHz conforming to EN/IEC 61000-4-3
Resistance to magnetic fields	30 A/m conforming to EN/IEC 61000-4-8
Resistance to fast transients	1 kV I/O conforming to EN/IEC 61000-4-4
Resistance to conducted disturbances	10 V at 0.1580 MHz conforming to EN/IEC 61000-4-6 3 V at 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 EN/IEC 55011 Radiated emissions, test level: 47 dB $\mu$ V/m QP class A (10 m at 2301000 MHz) conforming to EN/IEC 55011
Immunity to microbreaks	10 ms
Ambient air temperature for operation	14131 °F (-1055 °C) (horizontal installation) -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	09842.52 ft (03000 m)
Vibration resistance	3.5 mm at 58.4 Hz with DIN rail mounting support 3 gn at 8.4150 Hz with DIN rail mounting support
Shock resistance	15 gn during 11 ms

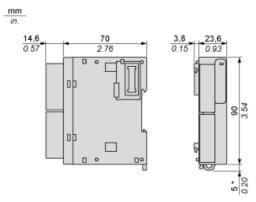
#### Ordering and shipping details

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Category	22533 - M2XX PLC & ACCESSORIES
Discount Schedule	MSX
GTIN	00785901334149
Nbr. of units in pkg.	1
Package weight(Lbs)	0.4500000000000001
Returnability	Υ
Country of origin	JP

## Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 1415 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
Product end of life instructions	Available	
California proposition 65	WARNING: This product can expose you to chemicals including:	
Substance 1 Lead and lead compounds, which is known to the State of Californ cer and birth defects or other reproductive harm.		
More information	More information For more information go to www.p65warnings.ca.gov	

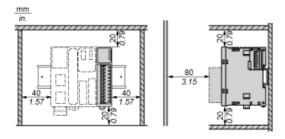
#### **Dimensions**



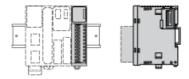
(\*) 8.5 mm/0.33 in when the clamp is pulled out.

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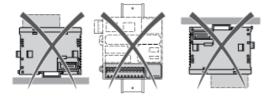
## Spacing Requirements



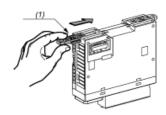
#### Mounting on a Rail



#### **Incorrect Mounting**

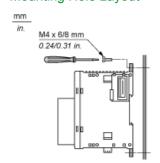


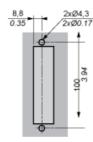
#### Mounting on a Panel Surface



(1) Install a mounting strip

#### Mounting Hole Layout

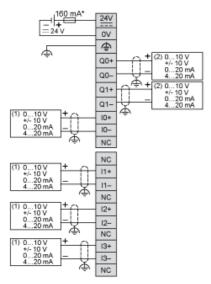




## TM3AM6G

#### Analogue Mixed I/O Module

#### Wiring Diagram (Current / Voltage)



- Type T fuse Current/Voltage analog output device
- Current/Voltage analog input device

## **Mouser Electronics**

**Authorized Distributor** 

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Schneider Electric: TM3AM6G