TM3AM6G

IO analog module, Modicon TM3, 4 inputs, 2 output, spring, 24V DC





Main

Range of product	Modicon TM3
Product or component type	Input/output analog module
Range compatibility	Modicon M221 Modicon M241 Modicon M251 Modicon M262
Analogue input number	4
Analogue input type	Current 420 mA Current 020 mA Voltage 010 V Voltage - 1010 V
Analogue output number	2
Analogue output type	Current: 420 mA Current: 020 mA Voltage: 010 V Voltage: - 1010 V

Complementary

12 bits 11 bits + sign
13 V, analogue input type: voltage 40 mA, analogue input type: current
<= 50 Ohm current >= 1 MOhm voltage
12 bits 11 bits + sign
2.44 mV 010 Vvoltage 4.88 mV - 1010 Vvoltage 4.88 μA 020 mAcurrent 3.91 μA 420 mAcurrent
Resistive
1 kOhm voltage 300 Ohm current
1 ms
1 ms + 1 ms per channel + 1 controller cycle time
1 Ms 10 ms
+/- 1 % of full scale +/- 0.2 % of full scale at 25 °C
+/- 0.01 %FS/°C
+/-0.5 %FS for input +/-0.5 %FS for output
+/- 0.2 %FS
20 mV
<= 1 LSB
24 V DC
20.428.8 V
Twisted shielded pairs cable <30 m for input/output circuit

Current consumption	45 mA at 5 V DC via bus connector no load 55 mA at 5 V DC via bus connector full load 55 mA at 24 V DC via external supply no load 100 mA at 24 V DC via external supply full load
Local signalling	1 LED (green) for PWR
Electrical connection	10 x 1.5 mm 2 removable spring terminal block with pitch 3.81 mm adjustment for inputs 10 x 1.5 mm 2 removable spring terminal block with pitch 3.81 mm adjustment for inputs, outputs and supply
Insulation	Between input and supply at 1500 V AC Between input and internal logic at 500 V AC 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 I/O common mode conforming to IEC 61000-4-5 0.5 kV I/O differential 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

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Standards	IEC 61131-2
Product certifications	CE[RETURN]UKCA[RETURN]RCM[RETURN]EAC[RETURN]cULus[RETURN]cULu 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 μ V/m QP class A (10 m) at 30230 MHz conforming to IEC 55011 Radiated emissions - test level: 47 dB μ 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

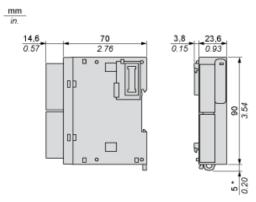
Packing Units

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	195.0 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	2.294 kg
Unit Type of Package 3	P12
Number of Units in Package 3	144
Package 3 Height	75 cm
Package 3 Width	120 cm
Package 3 Length	80 cm
Package 3 Weight	46 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EVEL RoHS
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	₽¥Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

Dimensions

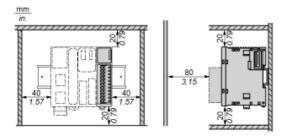


(*) 8.5 mm/0.33 in when the clamp is pulled out.

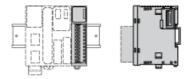
Product data sheet Mounting and Clearance

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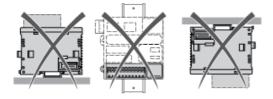
Spacing Requirements



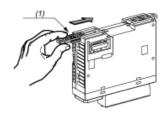
Mounting on a Rail



Incorrect Mounting

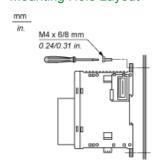


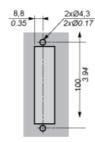
Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout



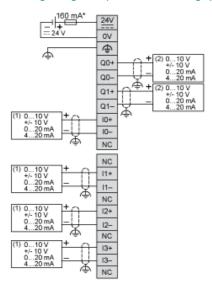


Product data sheet Connections and Schema

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Analogue Mixed I/O Module

Wiring Diagram (Current / Voltage)



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