

TM3AM6G

Input/output analog module, Modicon TM3, 4 inputs, 2 output (spring) 24 VDC



Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 259.00 USD



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 4...20 mA Current 0...20 mA Voltage 0...10 V voltage - 10...10 V
Analogue output number	2
Analogue output type	Current: 4...20 mA Current: 0...20 mA Voltage: 0...10 V Voltage - 10...10 V

Complementary

Analogue input resolution	12 bits 11 bits + sign
Permissible continuous overload	13 V, analogue input type: voltage 40 mA, analogue input type: current
Input impedance	<= 50 Ohm current >= 1 MOhm voltage
Analogue output resolution	12 bits 11 bits + sign
LSB value	2.44 mV 0...10 Vvoltage 4.88 mV - 10...10 V voltage 4.88 µA 0...20 mAcurrent 3.91 µA 4...20 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
Sampling duration	1 Ms 10 Ms
Absolute accuracy error	+/- 1 % of full scale +/- 0.2 % of full scale 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	20.4...28.8 V
Type of cable	Twisted shielded pairs cable <98.43 ft (30 m) input/output
Current consumption	45 mA 5 V DC via bus connector no load 55 mA 5 V DC via bus connector full load 55 mA 24 V DC via external supply no load 100 mA 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 pitch 3.81 mm for inputs 10 x 1.5 mm ² removable spring terminal block pitch 3.81 mm for inputs, outputs and supply
Insulation	Between input and supply 1500 V AC Between input and internal logic 500 V AC Between output and supply 1500 V AC Between output and internal logic 500 V AC
Marking	CE
Surge withstand	1 KV power supply common mode EN/IEC 61000-4-5 0.5 KV power supply differential mode EN/IEC 61000-4-5 1 KV I/O common mode EN/IEC 61000-4-5 0.5 KV I/O differential mode 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)
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 61131-2 EN/IEC 61010-2-201
Resistance to electrostatic discharge	8 KV in air EN/IEC 61000-4-2 4 KV on contact EN/IEC 61000-4-2
Resistance to electromagnetic fields	9.14 V/M (10 V/m) 80 MHz...1 GHz EN/IEC 61000-4-3 2.74 V/M (3 V/m) 1.4 GHz...2 GHz EN/IEC 61000-4-3 0.91 V/M (1 V/m) 2 GHz...3 GHz EN/IEC 61000-4-3
Resistance to magnetic fields	98.43 A/M (30 A/m) EN/IEC 61000-4-8
Resistance to fast transients	1 KV EN/IEC 61000-4-4 I/O)
Resistance to conducted disturbances	10 V 0.15...80 MHz EN/IEC 61000-4-6 3 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) Marine specification (LR, ABS, DNV, GL)
Electromagnetic emission	Radiated emissions 40 dBµV/m QP class A 10 m)30...230 MHz EN/IEC 55011 Radiated emissions 47 dBµV/m QP class A 10 m)230...1000 MHz EN/IEC 55011
Immunity to microbreaks	10 Ms
Ambient Air Temperature for Operation	14...131 °F (-10...55 °C) horizontal installation 14...95 °F (-10...35 °C) vertical installation
Ambient Air Temperature for Storage	-13...158 °F (-25...70 °C)
Relative humidity	10...95 %, without condensation in operation) 10...95 %, without condensation in storage)

IP degree of protection	IP20
Pollution degree	2
Operating altitude	0...6561.68 ft (0...2000 m)
Storage altitude	0.00...9842.52 Ft (0...3000 m)
Vibration resistance	3.5 mm 5...8.4 Hz DIN rail 3 gn 8.4...150 Hz DIN rail
Shock resistance	15 gn 11 ms

Ordering and shipping details

Category	22533 - M2XX PLC & ACCESSORIES
Discount Schedule	MSX
GTIN	03606480648953
Nbr. of units in pkg.	1
Package weight(Lbs)	1 Lb(US) (0.45 kg)
Returnability	Yes
Country of origin	JP

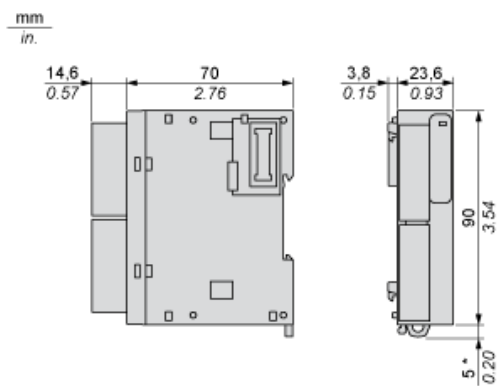
Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.95 In (7.5 cm)
Package 1 width	4.92 In (12.5 cm)
Package 1 Length	4.13 In (10.5 cm)

Offer Sustainability

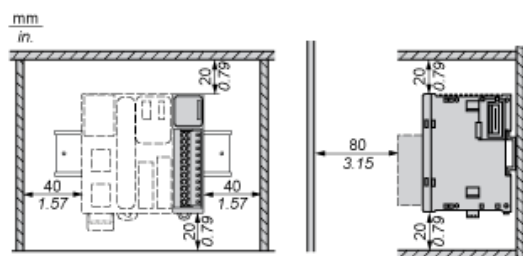
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
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

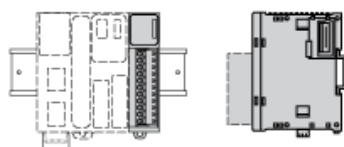


(*) 8.5 mm/0.33 in when the clamp is pulled out.

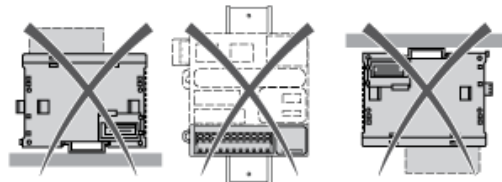
Spacing Requirements



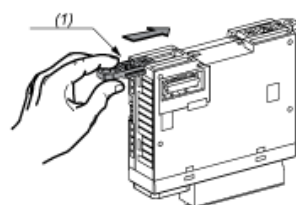
Mounting on a Rail



Incorrect Mounting

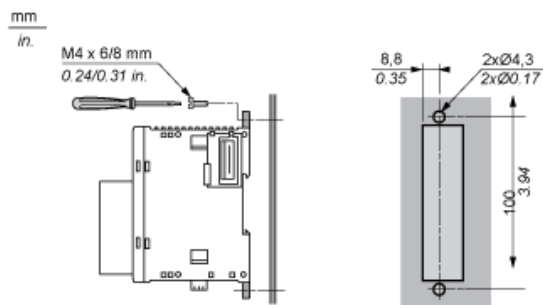


Mounting on a Panel Surface



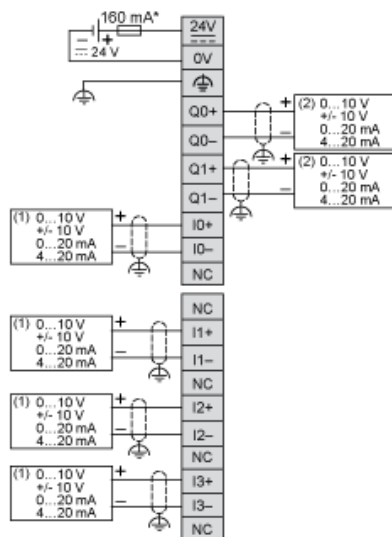
- (1) Install a mounting strip

Mounting Hole Layout



Analogue Mixed I/O Module

Wiring Diagram (Current / Voltage)



- (*) Type T fuse
- (1) Current/Voltage analog output device
- (2) Current/Voltage analog input device

Product Life Status : **Commercialised**