Product data sheet

Specification





analog input module, Modicon TM3, 2 inputs high resolution, screw, 24V DC

TM3AI2H

Product availability: Stock - Normally stocked in distribution facility

Price*: 197.00 USD

Main

Range Of Product	Modicon TM3	
Product Or Component Type	Analog input module	
Range Compatibility	Modicon M221 Modicon M241 Modicon M251 Modicon M262	
Analogue Input Number	2	
Analogue Input Type	current 420 mA current 020 mA voltage 010 V voltage - 1010 V	

Complementary

Analogue Input Resolution	16 bits	
	15 bits + sign	
Permissible Continuous Overload	13 V voltage	
	40 mA current	
Input Impedance	<= 50 Ohm current	
	>= 1 MOhm voltage	
Lsb Value	0.153 mV 010 V voltage	
	0.305 mV - 1010 V voltage	
	0.305 μA 020 mA current	
	0.244 μA 420 mA current	
Conversion Time	ne 1 ms + 1 ms per channel + 1 controller cycle time	
Sampling Duration	1 ms	
Absolute Accuracy Error	+/- 0.1 % of full scale at 77 °F (25 °C)	
	+/- 1 % of full scale	
Temperature Drift	+/- 0.006 %FS/°C	
Repeat Accuracy	+/-0.5 %FS	
Non-Linearity	+/- 0.01 %FS	
Cross Talk	<= 1 LSB	
[Us] Rated Supply Voltage	v Voltage 24 V DC	
Supply Voltage Limits	20.428.8 V	
Type Of Cable	Twisted shielded pairs cable <98.43 ft (30 m) input	
Current Consumption	30 mA 5 V DC via bus connector no load	
	40 mA 5 V DC via bus connector full load	
	25 mA 24 V DC via external supply	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Local Signalling for PWR 1 LED (green)		
Electrical Connection	11 x 2.5 mm² removable screw terminal block pitch 5.08 mm for inputs and supply	
Insulation	Between input and supply 1500 V AC	
	Between input and internal logic 500 V AC	
Marking	CE	
Surge Withstand	1 kV power supply common mode IEC 61000-4-5	
	0.5 kV power supply differential mode IEC 61000-4-5	
	1 kV input common mode IEC 61000-4-5	
Mounting Support	Top hat type TH35-15 rail IEC 60715	
	Top hat type TH35-7.5 rail 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)	
Net Weight	0.25 lb(US) (0.115 kg)	

Environment

Standards	IEC 61131-2	
Product Certifications	CE UKCA RCM EAC cULus cULus HazLoc	
Resistance To Electrostatic Discharge	8 kV in air IEC 61000-4-2 4 kV on contact IEC 61000-4-2	
Resistance To Electromagnetic Fields	9.14 V/m (10 V/m) 80 MHz1 GHz IEC 61000-4-3 2.74 V/m (3 V/m) 1.4 GHz2 GHz IEC 61000-4-3 0.91 V/m (1 V/m) 2 GHz3 GHz IEC 61000-4-3	
Resistance To Magnetic Fields 98.43 A/m (30 A/m) IEC 61000-4-8		
Resistance To Fast Transients	1 kV IEC 61000-4-4 I/O)	
Resistance To Conducted Disturbances	10 V 0.1580 MHz 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)30230 MHz IEC 55011 Radiated emissions 47 dBμV/m QP class A 10 m)2301000 MHz IEC 55011	
Immunity To Microbreaks	obreaks 10 ms	
Ambient Air Temperature For Operation	ture For 14131 °F (-1055 °C) horizontal installation 1495 °F (-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	0.009842.52 ft (03000 m)	
Vibration Resistance	3.5 mm 58.4 Hz DIN rail 3 gn 8.4150 Hz DIN rail	
Shock Resistance 15 gn 11 ms		

Ordering and shipping details

Category	US10MSX22533	
Discount Schedule	OMSX	
Gtin	3606480648885	
Returnability	Yes	
Country Of Origin	US	

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	2.94 in (7.46 cm)	
Package 1 Width	4.19 in (10.645 cm)	
Package 1 Length	5.00 in (12.707 cm)	
Package 1 Weight	7.76 oz (220.0 g)	
Unit Type Of Package 2	S04	
Number Of Units In Package 2	42	
Package 2 Height	11.81 in (30 cm)	
Package 2 Width	15.75 in (40 cm)	
Package 2 Length	23.62 in (60 cm)	
Package 2 Weight	22.80 lb(US) (10.341 kg)	
Unit Type Of Package 3	P12	
Number Of Units In Package 3	504	
Package 3 Height	41.34 in (105 cm)	
Package 3 Width	47.24 in (120 cm)	
Package 3 Length	31.50 in (80 cm)	
ackage 3 Weight 295.42 lb(US) (134 kg)		

Sustainability Screen Premium

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

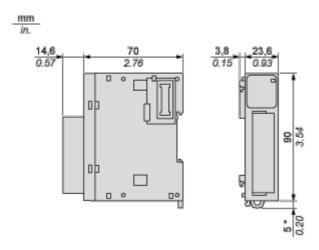
⊘	Toxic Heavy Metal Free	
Ø	Mercury Free	
Ø	Rohs Exemption Information	Yes
②	Pvc Free	

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

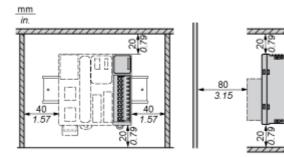


(*) 8.5 mm/0.33 in when the clamp is pulled out.

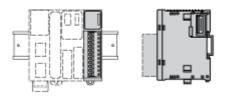
TM3AI2H

Mounting and Clearance

Spacing Requirements



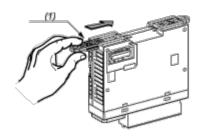
Mounting on a Rail



Incorrect Mounting

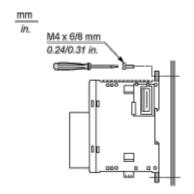


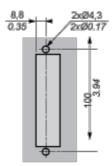
Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout





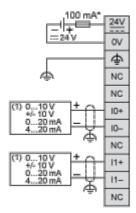
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Connections and Schema

Analogue Input Module

Wiring Diagram (Current / Voltage)



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