Product data sheet

Specification





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

TM3AI2HG

Product availability: Non-Stock - Not 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	2.44 mV 010 V voltage
	4.88 mV - 1010 V voltage
	4.88 μA 020 mA current
	3.91 µA 420 mA current
Conversion Time	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	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 spring 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	0.22 lb(US) (0.1 kg)

Environment

IEC 61131-2
CE UKCA RCM EAC cULus cULus HazLoc
8 kV in air IEC 61000-4-2 4 kV on contact IEC 61000-4-2
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
98.43 A/m (30 A/m) IEC 61000-4-8
1 kV IEC 61000-4-4 I/O)
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)
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
10 ms
14131 °F (-1055 °C) horizontal installation 1495 °F (-1035 °C) vertical installation
-13158 °F (-2570 °C)
1095 %, without condensation in operation) 1095 %, without condensation in storage)
IP20
2
06561.68 ft (02000 m)
0.009842.52 ft (03000 m)
3.5 mm 58.4 Hz DIN rail 3 gn 8.4150 Hz DIN rail
15 gn 11 ms

Ordering and shipping details

Category	US10MSX22533
Discount Schedule	OMSX
Gtin	3606480648892
Returnability	No
Country Of Origin	JP

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.95 in (7.5 cm)
Package 1 Width	4.13 in (10.5 cm)
Package 1 Length	4.92 in (12.5 cm)
Package 1 Weight	7.05 oz (200.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	9
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	4.95 lb(US) (2.246 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

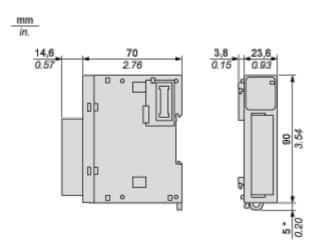
②	Toxic Heavy Metal Free
Ø	Mercury Free
Ø	Rohs Exemption Information Yes
⊘	Pvc Free

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



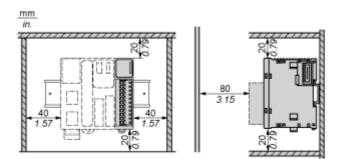
(*) 8.5 mm/0.33 in when the clamp is pulled out.

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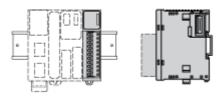
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Mounting and Clearance

Spacing Requirements



Mounting on a Rail

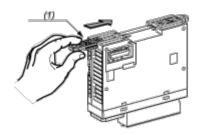


Incorrect Mounting



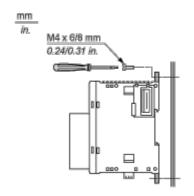
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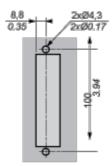
Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout





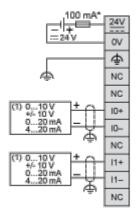
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Connections and Schema

Analogue Input Module

Wiring Diagram (Current / Voltage)



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