TM3AI2HG

module TM3 - 2 analog inputs high resolution spring



Product availability: Stock - Normally stocked in distribution facility



Main	
Range of product	Modicon TM3
Product or component type	Analog input module
Range compatibility	Modicon M251 Modicon M241 Modicon M221
Analogue input number	2
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

Complementary

- Comprehensive	
Analogue input resolution	15 bits + sign 16 bits
Permissible continuous overload	13 V voltage 40 mA current
Input impedance	<= 50 Ohm current >= 1 MOhm voltage
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
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 30 m for input circuit
Current consumption	30 mA at 5 V DC (no load) via bus connector 40 mA at 5 V DC (full load) via bus connector 25 mA at 24 V DC via external supply
Local signalling	1 LED green PWR
Electrical connection	$11\ x\ 2.5\ mm^2$ removable spring terminal block with pitch 5.08 mm adjustment for inputs and supply
Insulation	500 V AC between input and internal logic 1500 V AC between input 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 input with common 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)	
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 dBμV/m QP class A (10 m at 30230 MHz) conforming to EN/IEC 55011 Radiated emissions, test level: 47 dBμV/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

Category	22533 - M2XX PLC & ACCESSORIES
Discount Schedule	MSX
GTIN	00785901320975
Nbr. of units in pkg.	1
Package weight(Lbs)	0.450000000000001
Returnability	Υ
Country of origin	JP

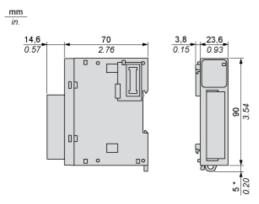
Offer Sustainability

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 California to cause cancer and birth defects or other reproductive harm.
More information	For more information go to www.p65warnings.ca.gov

Product data sheet Dimensions Drawings

TM3AI2HG

Dimensions

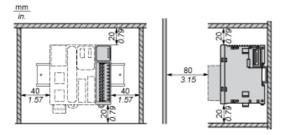


(*) 8.5 mm/0.33 in when the clamp is pulled out.

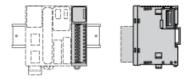
Product data sheet Mounting and Clearance

TM3AI2HG

Spacing Requirements



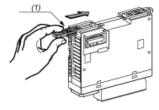
Mounting on a Rail



Incorrect Mounting

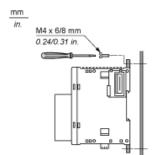


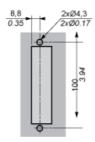
Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout



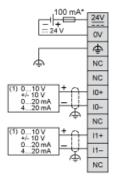


Product data sheet Connections and Schema

TM3AI2HG

Analogue Input Module

Wiring Diagram (Current / Voltage)



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Schneider Electric:

TM3AI2HG