Product datasheet

Specification





analog output module - 40 - +/-10 V/0..20 mA - 16 bits

TM5SAO4H

EAN Code: 3595864074825

Main

Range Of Product	Modicon TM5		
Product Or Component Type Analog output module			
Analogue Output Number	4		
Analogue Output Resolution	15 bits + sign, +/- 10 V 15 bits - 0 - 20 mA		

Complementary

Range Compatibility	Modicon M258 Modicon LMC058					
Product Compatibility	Logic controller Motion controller					
Analogue Output Type	Current 020 mA Voltage +/- 10 V					
Measurement Resolution	305.176 μV, +/- 10 V 610.352 nA, 020 mA					
Colour	White					
Response Time	<= 1 ms					
Minimum Output Impedance	1 Ohm					
Sampling Duration	50 μs					
Measurement Error	< 0.04 % of full scale +/- 10 V at 25 °C < 0.04 % of full scale 020 mA at 25 °C					
Temperature Coefficient	0.01 %FS/°C, analogue output type: current 0.01 %FS/°C, analogue output type: voltage					
Non-Linearity	< 0.005 %FS, analogue output type: current < 0.005 %FS, analogue output type: voltage					
Type Of Cable	Shielded cable					
Isolation	No insulation between channels 500 Vrms AC insulation between channel and bus					
Supply	Internal					
[Us] Rated Supply Voltage	24 V DC -1520 %					
Local Signalling	1 LED green for power supply 1 LED red for power supply 4 LEDs yellow for output status					
Current Consumption	2 mA at 5 V DC bus 63 mA at 24 V DC input/output					
Maximum Power Dissipation In W	W 1.51 W					
Marking	CE					

Net Weight 0.025 kg

Environment

Standards	IEC 61131-2 CSA C22.2 No 213 UL 508 CSA C22.2 No 142				
Product Certifications	CSA C-Tick cULus GOST-R				
Ambient Air Temperature For Operation	055 °C without derating (horizontal installation) 060 °C with derating factor (horizontal installation) 050 °C (vertical installation)				
Ambient Air Temperature For Storage	-2570 °C				
Relative Humidity	595 % without condensation				
Ip Degree Of Protection	IP20 conforming to IEC 61131-2				
Pollution Degree	2 conforming to IEC 60664				
Operating Altitude	02000 m				
Storage Altitude	03000 m				
Vibration Resistance	1 gn at 8.4150 Hz on DIN rail 3.5 mm at 58.4 Hz on DIN rail				
Shock Resistance	15 gn for 11 ms				
Resistance To Electrostatic Discharge	4 kV on contact conforming to IEC 61000-4-2 8 kV in air conforming to IEC 61000-4-2				
Resistance To Electromagnetic Fields	1 V/m 22.7 GHz conforming to IEC 61000-4-3 10 V/m 802000 MHz conforming to IEC 61000-4-3				
Resistance To Fast Transients	1 kV (I/O) conforming to IEC 61000-4-4 1 kV (shielded cable) conforming to IEC 61000-4-4 2 kV (power lines) conforming to IEC 61000-4-4				
Surge Withstand	0.5 kV differential mode conforming to IEC 61000-4-5 1 kV common mode conforming to IEC 61000-4-5				
Electromagnetic Compatibility	EN/IEC 61000-4-6				
Disturbance Radiated/Conducted	CISPR 11				

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.900 cm
Package 1 Width	5.900 cm
Package 1 Length	10.400 cm
Package 1 Weight	40.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	97
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.131 kg

Contractual warranty

Warranty

18 months

Sustainability Green 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

⊘	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
②	Rohs Exemption Information Yes
②	Pvc Free

Certifications & Standards

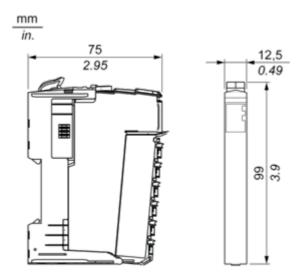
Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		
Circularity Profile	End of Life Information		

5 May 2024

Dimensions Drawings

TM5 Slice

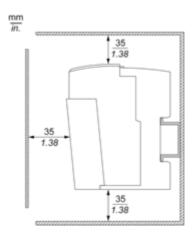
Dimensions

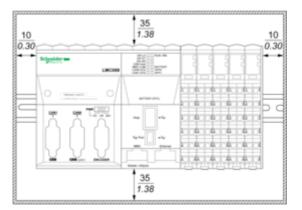


Mounting and Clearance

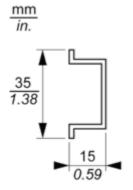
TM5 System

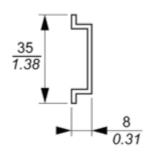
Spacing Requirements

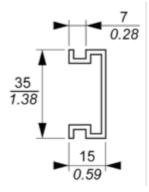




Mounting on a DIN Rail







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Connections and Schema

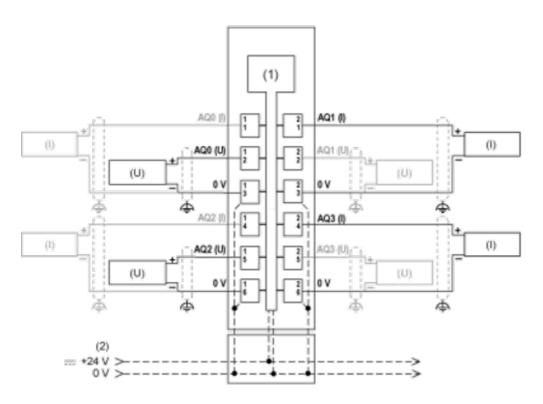
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.	0.35				
	mm²	0,082,5	0,252,5	0,251,5	2 x 0,252 x 0,75
	AWG	2814	2414	2416	2 x 242 x 18

Electronic Module 4AO ±10V/0-20mA 16 Bits

Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (I) Current
- (U) Voltage