# **Product data sheet**

Specification





# analog output module, Modicon TM5, 4O, +/-10V, 0 to 20mA, 16bits

TM5SAO4H

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

Price\*: 935.00 USD

#### 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, 020 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			
Color	White			
Response Time	<= 1 ms			
Minimum Output Impedance	1 Ohm			
Sampling Duration	50 μs			
Measurement Error	< 0.04 % of full scale +/- 10 V 25 °C < 0.04 % of full scale 020 mA 25 °C			
Temperature Coefficient	0.01 %FS/°C current 0.01 %FS/°C voltage			
Non-Linearity	< 0.005 %FS current < 0.005 %FS 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 power supply 1 LED red power supply 4 LEDs yellow output status			
Current Consumption	2 mA 5 V DC bus 63 mA 24 V DC input/output			
Maximum Power Dissipation In W	1.51 W			

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

Marking	CE
Net Weight	0.06 lb(US) (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	32131 °F (055 °C) without derating horizontal installation) 32140 °F (060 °C) with derating factor horizontal installation) 32122 °F (050 °C) vertical installation)			
Ambient Air Temperature For Storage	-13158 °F (-2570 °C)			
Relative Humidity	595 % without condensation			
Ip Degree Of Protection	IP20IEC 61131-2			
Pollution Degree	2 IEC 60664			
Operating Altitude	06561.68 ft (02000 m)			
Storage Altitude	0.009842.52 ft (03000 m)			
Vibration Resistance	1 gn 8.4150 Hz DIN rail 3.5 mm 58.4 Hz DIN rail			
Shock Resistance 15 gn 11 ms				
Resistance To Electrostatic Discharge	4 kV on contact IEC 61000-4-2 8 kV in air IEC 61000-4-2			
Resistance To Electromagnetic Fields	0.91 V/m (1 V/m) 22.7 GHz IEC 61000-4-3 9.14 V/m (10 V/m) 802000 MHz IEC 61000-4-3			
Resistance To Fast Transients	1 kV IEC 61000-4-4 I/O) 1 kV IEC 61000-4-4 shielded cable) 2 kV IEC 61000-4-4 power lines)			
Surge Withstand	0.5 kV differential mode IEC 61000-4-5 1 kV common mode IEC 61000-4-5			
Electromagnetic Compatibility	pility EN/IEC 61000-4-6			
Disturbance Radiated/Conducted	CISPR 11			

# Ordering and shipping details

Category	US1PC1222532	
Discount Schedule	PC12	
Gtin	3595864074825	
Returnability	No	
Country Of Origin	AT	

# **Packing Units**

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	0.75 in (1.900 cm)	
Package 1 Width	2.32 in (5.900 cm)	

Package 1 Length	4.09 in (10.400 cm)	
Package 1 Weight	1.41 oz (40.000 g)	
Unit Type Of Package 2	S02	
Number Of Units In Package 2	97	
Package 2 Height	5.91 in (15.000 cm)	
Package 2 Width	11.81 in (30.000 cm)	
Package 2 Length	15.75 in (40.000 cm)	
Package 2 Weight	9.11 lb(US) (4.131 kg)	

# **Contractual warranty**

Warranty 18 months

# Sustainability Green Premium

**Green Premium**<sup>TM</sup> **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-CO<sub>2</sub> 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

<b>⊘</b>	Reach Free Of Svhc
	Toxic Heavy Metal Free
<b>②</b>	Mercury Free
<b>⊘</b>	Rohs Exemption Information Yes
<b>⊘</b>	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			

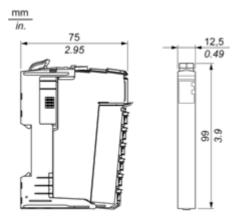
## **Product data sheet**

## TM5SAO4H

#### **Dimensions Drawings**

#### TM5 Slice

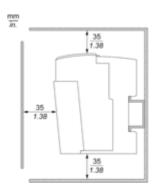
#### **Dimensions**

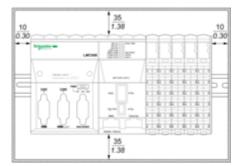


## Mounting and Clearance

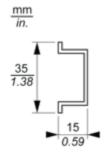
## TM5 System

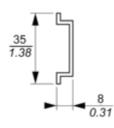
#### **Spacing Requirements**

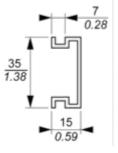




#### Mounting on a DIN Rail







# **Product data sheet**

## TM5SAO4H

Connections and Schema

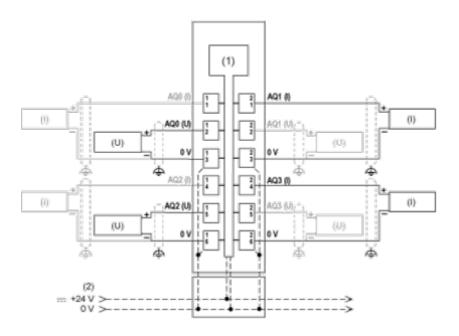
#### TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.	0.35		==	~D=	æ>-
	mm <sup>2</sup>	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