



analog input module, Modicon TM5, 4I, temperature probe PT100, PT1000, 16bits

TM5SAI4PH

Main

Range Of Product	Modicon TM5	
Product Or Component Type	Analog input module	
Analogue Input Number	4	
Analogue Input Type	Pt 100/Pt 1000 temperature probe - 200850 °C	
Analogue Input Resolution	16 bits	

Complementary

Range Compatibility	Modicon LMC058 Modicon M258		
Product Compatibility	Logic controller Motion controller		
Measurement Resolution	0.1 °C		
Colour	White		
Measurement Error	< 0.037 % of full scale - 200850 °C Pt 100/Pt 1000 at 25 °C		
Temperature Coefficient	re Coefficient 0.004 %FS/°C, analogue input type: temperature probe		
Non-Linearity	0.001 %FS, analogue input type: temperature probe		
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 %		
Common Mode Rejection	> 95 dB		
Local Signalling	LED green for power supply LED red for power supply LEDs green for input status		
Current Consumption	t Consumption 2 mA at 5 V DC bus 46 mA at 24 V DC input/output		
Maximum Power Dissipation In W	1.11 W		
Marking	CE		
Net Weight	0.025 kg		

Environment

Standards	UL 508	
	CSA C22.2 No 213	
	IEC 61131-2	
	CSA C22.2 No 142	

Product Certifications	GOST-R CSA C-Tick cULus		
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	2.0 cm
Package 1 Width	6.0 cm
Package 1 Length	10.5 cm
Package 1 Weight	41.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	97
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	3.977 kg

Contractual warranty

Warranty 18 months



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

Certifications & Standards

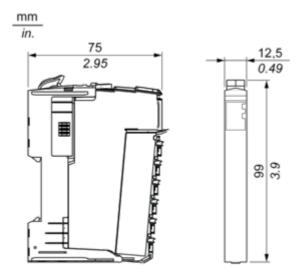
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following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

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Dimensions Drawings

TM5 Slice

Dimensions

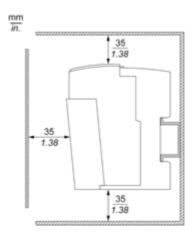


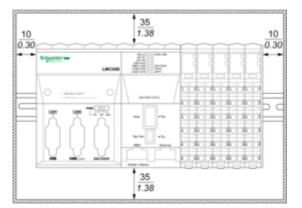
TM5SAI4PH

Mounting and Clearance

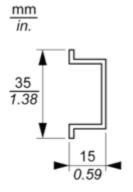
TM5 System

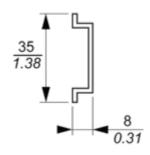
Spacing Requirements

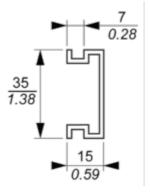




Mounting on a DIN Rail







Product datasheet

TM5SAI4PH

Connections and Schema

TM5 System Wiring Recommendations

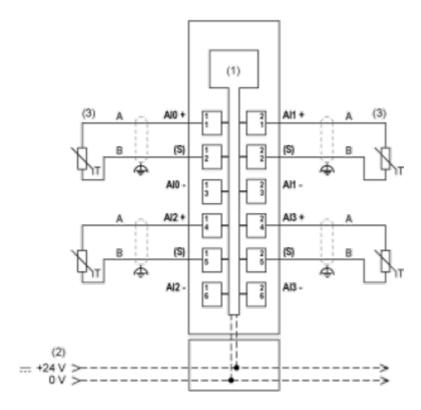
Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.	0.35		Ω		
	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 4AI PT100/PT1000 16 Bits

Wiring Diagrams

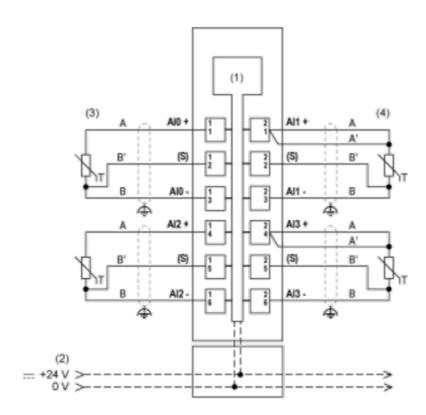
The following figure shows the 2-wire wiring diagram:



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) 2-wire sensor
- (S) Senso

The following figure shows the 3-wire and 4-wire wiring diagram:

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- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) 3-wire sensor
- (4) 4-wire sensor
- (S) Sensor