

Product data sheet

Specifications



Analog input module, Modicon TM5, FS, 2I, 4 to 20mA, 24 bits

TM5SAI4AFS

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

Main

Range of Product	Modicon TM5
Product or Component Type	Analog input module
Product Compatibility	Logic controller Motion controller
Range Compatibility	Modicon LMC058 Modicon M258
Analogue input number	4

Complementary

Measurement resolution	1 µA, 4...20 mA
Color	Red
Temperature coefficient	+/-0.005 %FS/°C current
Supply	Internal
[Us] rated supply voltage	24 V DC -15...20 %
Analogue input type	Current 4...20 mA
Analogue input resolution	24 bits 0...20 mA/4...20 mA
Input filtering	1 ms configurable by software 2 ms configurable by software 10 ms configurable by software 16.7 ms configurable by software 20 ms configurable by software 33.3 ms configurable by software 40 ms configurable by software 66.7 ms configurable by software
Sampling duration	7 ms 14 ms 20 ms 25 ms 40 ms 48 ms 62 ms 5 ms analog input
Load impedance ohmic	<= 230 Ohm current
Type of Cable	Shielded cable
Measurement error	< 0.08 % of full scale 4...20 mA 25 °C
Non-linearity	0.003 %FS current
Common mode rejection	> 70 dB
Typical current consumption	2 mA 5 V DC 38 mA 24 V DC input/output

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Power dissipation in W	0.25 W 1.7 W
Isolation between channels and bus	500 Vrms AC
Local signalling	1 LED green power supply 1 LED red power supply 4 LEDs green input status
Housing Colour	Red
Height	4.1 in (105 mm)
Width	1.2 in (30 mm)
Depth	2.4 in (60 mm)
Product Weight	0.150 lb(US) (0.068 kg)

Environment

IP Degree of Protection	IP20
Marking	CE
Product certifications	CSA CULus
Standards	UL 508 ISO 13849-1 IEC 61508 IEC 61511 EN 50156-1 IEC 62061
Ambient air temperature for operation	32...104 °F (0...40 °C) vertical installation 32...131 °F (0...55 °C) horizontal installation)
Ambient air temperature for storage	-13...158 °F (-25...70 °C)
Relative humidity	5...95 % without condensation
Operating altitude	0...6561.68 ft (0...2000 m)
Pollution degree	2
Vibration resistance	1 gn 8.4...150 Hz) on DIN rail 3.5 mm 5...8.4 Hz) on DIN rail
Shock resistance	15 gn 11 ms

Ordering and shipping details

Category	US1PC5218360
Discount Schedule	PC52
GTIN	3606480941122
Returnability	No
Country of origin	AT

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.181 in (3.000 cm)
Package 1 Width	2.362 in (6.000 cm)
Package 1 Length	4.134 in (10.500 cm)
Package weight(Lbs)	2.399 oz (68.000 g)

Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	7.496 lb(US) (3.400 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	100 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	19 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	81 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACH Regulation	Free of Substances of Very High Concern above the threshold
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
PVC free	Yes

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	0
Circularity Profile	End of Life Information
Take-back	No