Product data sheet
Characteristics

TM5SAI2TH
Analog input module, Modicon TM5, 2I, thermocouple J/K/N/S, 16bits



Main

Range of product	Modicon TM5
Product or component type	Analog input module
Product compatibility	Logic controller Motion controller
Range compatibility	Modicon M258 Modicon LMC058
Analogue input number	2

Complementary

Measurement resolution	0.1 °C
Colour	White
Temperature coefficient	0.01 %FS/°C, analogue input type: thermocouple
Supply	Internal
[Us] rated supply voltage	24 V DC -15...20 %
Analogue input type	Thermocouple - 210...1200 °C thermocouple J Thermocouple - 270...1300 °C thermocouple N Thermocouple - 270...1372 °C thermocouple K Thermocouple - 50...1768 °C thermocouple S
Analogue input resolution	16 bits
Input filtering	1...66.7 ms configurable by software
Type of cable	Shielded cable
Measurement error	+/- 0.1 % of full scale - 210...1200 °C thermocouple J 25 °C +/- 0.11 % of full scale - 270...1300 °C thermocouple N 25 °C +/- 0.11 % of full scale - 270...1372 °C thermocouple K 25 °C +/- 0.17 % of full scale - 50...1768 °C thermocouple S 25 °C
Non-linearity	+/- 0.001 %FS, analogue input type: thermocouple
Common mode rejection	> 70 dB
Typical current consumption	2 MA at 5 V DC 30 MA at 24 V DC input/output
Power dissipation in W	0.73 W
Isolation between channels	None
Isolation between channels and bus	500 Vrms AC
Local signalling	1 LED green for power supply 1 LED red for power supply 2 LEDs green for input status
Housing colour	White
Height	99 Mm
Width	12.5 Mm
Depth	75 Mm
Net weight	0.025 Kg

Environment

IP degree of protection	IP20
Marking	CE
Product certifications	CSA[RETURN]GOST-R[RETURN]C-Tick[RETURN]CULus
Standards	UL 508 CSA C22.2 No 142 CSA C22.2 No 213 IEC 61131-2
Ambient air temperature for operation	0…55 °C without derating (horizontal installation) 0…60 °C with derating factor (horizontal installation) 0…50 °C (vertical installation)
Ambient air temperature for storage	-25…70 °C
Relative humidity	5…95 % without condensation
Operating altitude	0...2000 m
Pollution degree	2
Vibration resistance	1 gn (f = 8.4…150 Hz) on DIN rail 3.5 mm (f = 5…8.4 Hz) on DIN rail
Shock resistance	15 gn for 11 ms

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.000 Cm
Package 1 Width	6.000 Cm
Package 1 Length	10.500 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	4.263 Kg

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	31 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1.3464712652197728
Carbon footprint of the manufacturing phase [A1 to A3]	1 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.014005524357610438
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.027625247088581543
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	29.447017140766178
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	29 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.06380714994773072
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	31
Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
REACh Regulation	Free of Substances of Very High Concern above the threshold

EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised