

Product data sheet

Specifications



analogue input cartridge, Modicon M241, 2 temperature inputs

TMC4TI2

Main

Range of product	Modicon M241
Product or component type	Analogue input cartridge
Product compatibility	Modicon M241C
Analogue input number	2

Complementary

Analogue input type	thermocouple - 200...1000 °C with thermocouple J thermocouple - 200...1300 °C with thermocouple K thermocouple 0...1760 °C with thermocouple R thermocouple 0...1760 °C with thermocouple S thermocouple 0...1820 °C with thermocouple B thermocouple - 200...400 °C with thermocouple T thermocouple - 200...1300 °C with thermocouple N thermocouple - 200...800 °C with thermocouple E Ni 100/Ni 1000 temperature probe - 60...180 °C Pt 100 temperature probe - 200...850 °C Pt 1000 temperature probe - 200...600 °C
Analogue input resolution	14 bits
LSB value	0.1 °C
Sampling duration	100 ms
Absolute accuracy error	+/- 0.5 % of full scale at 25 °C for Pt 100/Pt 1000, Ni 100/ Ni 1000 temperature probe +/- 0.2 % of full scale at 25 °C for thermocouple K - 200...1300 °C +/- 0.2 % of full scale at 25 °C for thermocouple J - 200...1000 °C +/- 0.2 % of full scale at 25 °C for thermocouple E - 200...800 °C +/- 0.2 % of full scale at 25 °C for thermocouple T - 200...400 °C +/- 0.2 % of full scale at 25 °C for thermocouple N - 200...1300 °C +/- 0.2 % of full scale at 25 °C for thermocouple B 250...400 °C +/- 0.1 % of full scale at 25 °C for thermocouple B 400...1280 °C +/- 0.2 % of full scale at 25 °C for thermocouple R, S 0...1760°C
Temperature drift	+/- 0.008 %FS/°C
Repeat accuracy	+/- 0.1 %FS
Non-linearity	+/- 0.05 %FS
Cross talk	80 dB
Type of cable	Twisted shielded pairs cable
Electrical connection	1 x 1.5 mm ² 1 spring terminal block with pitch 3.81 mm adjustment for outputs and supply
Maximum cable distance between devices	Twisted shielded pairs cable: <30 m for input
Insulation	Between input and internal logic at 500 V DC Non-insulated between inputs
Supply voltage limits	20.4...28.8 V
Local signalling	1 LED (green) for PWR

Height	50 mm
Depth	21 mm
Width	34 mm
Product weight	0.055 kg
Permissible continuous overload	6 V
Input impedance	$\geq 1 \text{ MOhm}$

Environment

Immunity to microbreaks	10 ms
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Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.0 cm
Package 1 Width	3.0 cm
Package 1 Length	3.5 cm
Package 1 Weight	74.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.164 kg



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 **35**

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **Yes**

[EU RoHS Directive](#) **Pro-active compliance (Product out of EU RoHS legal scope)**

SCIP Number **D8dbab46-37ab-4503-807f-893da69cb5e6**

REACH Regulation [REACH Declaration](#)

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 Again

Repack and remanufacture

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 and never end up in rubbish bins**