



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
Net weight	0.055 kg

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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 Weight	74.0 g
Package 1 Height	7 cm
Package 1 width	3 cm
Package 1 Length	3.5 cm
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Weight	4.164 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
PVC free	Yes