



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, input range: - 200...1000 °C for thermocouple J Thermocouple, input range: - 200...1300 °C for thermocouple K Thermocouple, input range: 0...1760 °C for thermocouple R Thermocouple, input range: 0...1760 °C for thermocouple S Thermocouple, input range: 0...1820 °C for thermocouple B Thermocouple, input range: - 200...400 °C for thermocouple T Thermocouple, input range: - 200...1300 °C for thermocouple N Thermocouple, input range: - 200...800 °C for thermocouple E Temperature probe, input range: - 60...180 °C (Ni 100/Ni 1000) Temperature probe, input range: - 200...850 °C (Pt 100) Temperature probe, input range: - 200...600 °C (Pt 1000)
Analogue input resolution	14 bits
LSB value	0.1 °C
Sampling duration	100 ms
Absolute accuracy error	+/- 0.5 % of full scale Pt 100/Pt 1000, Ni 100/ Ni 1000 25 °C +/- 0.2 % of full scale thermocouple K - 200...1300 °C 25 °C +/- 0.2 % of full scale thermocouple J - 200...1000 °C 25 °C +/- 0.2 % of full scale thermocouple E - 200...800 °C 25 °C +/- 0.2 % of full scale thermocouple T - 200...400 °C 25 °C +/- 0.2 % of full scale thermocouple N - 200...1300 °C 25 °C +/- 0.2 % of full scale thermocouple B 250...400 °C 25 °C +/- 0.1 % of full scale thermocouple B 400...1280 °C 25 °C +/- 0.2 % of full scale thermocouple R, S 0...1760°C 25 °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 spring terminal block (pitch 3.81 mm) 1.5 mm² 1 for outputs and supply
Cable distance between devices	Twisted shielded pairs cable: 30 m for input
Insulation	Non-insulated between inputs Between input and internal logic 500 V DC
Supply voltage limits	20.4...28.8 V
Local signalling	1 LED green PWR
Height	50 mm
Depth	21 mm
Width	34 mm
Product weight	0.055 kg
Permissible continuous overload	6 V
Input impedance	>= 1 MOhm

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Environment

immunity to microbreaks	10 ms
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Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1350 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available