



## Main

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

## Complementary

Analogue input type	Temperature probe, input range: - 200...600 °C (Pt 1000) Temperature probe, input range: - 200...850 °C (Pt 100) Temperature probe, input range: - 60...180 °C (Ni 100/Ni 1000) Thermocouple, input range: - 200...800 °C for thermocouple E Thermocouple, input range: - 200...1300 °C for thermocouple N Thermocouple, input range: - 200...400 °C for thermocouple T Thermocouple, input range: 0...1820 °C for thermocouple B Thermocouple, input range: 0...1760 °C for thermocouple S Thermocouple, input range: 0...1760 °C for thermocouple R Thermocouple, input range: - 200...1300 °C for thermocouple K Thermocouple, input range: - 200...1000 °C for thermocouple J
Analogue input resolution	14 bits
Permissible continuous overload	6 V
Input impedance	>= 1 MOhm
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) +/- 0.1 % of full scale for thermocouple B, input range: 400...1280 °C +/- 0.2 % of full scale for thermocouple B, input range: 250...400 °C +/- 0.2 % of full scale for thermocouple N +/- 0.2 % of full scale for thermocouple E +/- 0.2 % of full scale for thermocouple T +/- 0.2 % of full scale for thermocouple S +/- 0.2 % of full scale for thermocouple R +/- 0.2 % of full scale for thermocouple K +/- 0.2 % of full scale for thermocouple J
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
Power consumption in W	2 W at 24 V DC
Electrical connection	1 spring terminal block (pitch 3.81 mm) 1.5 mm <sup>2</sup> 1 for outputs and supply
Cable length	<= 30 m twisted shielded pairs cable (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	1.97 in (50 mm)
Depth	0.83 in (21 mm)
Width	1.34 in (34 mm)
Product weight	0.12 lb(US) (0.055 kg)

## Environment

Immunity to microbreaks	10 ms
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