# Product data sheet
## Characteristics

# TMC4TI2
## cartridge M241 - 2 temperature inputs


## Main

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

## Complementary

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|---|---|
| Analogue input type | Temperature probe, input range: - 200...600 °C (Pt 1000)<br>Temperature probe, input range: - 200...850 °C (Pt 100)<br>Temperature probe, input range: - 60...180 °C (Ni 100/Ni 1000)<br>Thermocouple, input range: - 200...800 °C for thermocouple E<br>Thermocouple, input range: - 200...1300 °C for thermocouple N<br>Thermocouple, input range: - 200...400 °C for thermocouple T<br>Thermocouple, input range: 0...1820 °C for thermocouple B<br>Thermocouple, input range: 0...1760 °C for thermocouple S<br>Thermocouple, input range: 0...1760 °C for thermocouple R<br>Thermocouple, input range: - 200...1300 °C for thermocouple K<br>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)<br>+/- 0.1 % of full scale for thermocouple B, input range: 400...1280 °C<br>+/- 0.2 % of full scale for thermocouple B, input range: 250...400 °C<br>+/- 0.2 % of full scale for thermocouple N<br>+/- 0.2 % of full scale for thermocouple E<br>+/- 0.2 % of full scale for thermocouple T<br>+/- 0.2 % of full scale for thermocouple S<br>+/- 0.2 % of full scale for thermocouple R<br>+/- 0.2 % of full scale for thermocouple K<br>+/- 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 mm² 1 for outputs and supply |
| Cable length | <= 30 m twisted shielded pairs cable (input) |
| Insulation | Non-insulated between inputs<br>Between input and internal logic 500 V DC |
| Supply voltage limits | 20.4...28.8 V |

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| 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

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|---|---|
| Immunity to microbreaks | 10 ms |