

TSXAEY414

analog input module Modicon Premium - 4 I
multirange



Main

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|----------------------------|---|
| Range of product | Modicon Premium Automation platform |
| Product or component type | Analog input module |
| Analogue input number | 4 |
| Analogue input type | Current 4...20 mA Resistor 0...400 Ohm Resistor 0...3850 Ohm Temperature probe Pt 100 2 wires Temperature probe Pt 100 4 wires Temperature probe Pt 1000 2 wires Temperature probe Pt 1000 4 wires Temperature probe Ni 1000 2 wires Temperature probe Ni 1000 4 wires Thermocouple thermocouple B Thermocouple thermocouple E Thermocouple thermocouple J Thermocouple thermocouple K Thermocouple thermocouple L Thermocouple thermocouple N Thermocouple thermocouple R Thermocouple thermocouple S Thermocouple thermocouple T Thermocouple thermocouple U Voltage - 13...63 mV Voltage +/- 10 V Voltage 0...10 V Voltage +/- 5 V Voltage 0...5 V Voltage 1...5 V |
| Analog/Digital conversion | 16 bits |
| Isolation between channels | 2830 Vrms |

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Complementary

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|--|---|
| Input level | Low level |
| Nominal read cycle time | 550 ms |
| Measurement error | 0.13 % of full scale 0...400 Ohm 25 °C 0.16 % of full scale 0...10 V 25 °C 0.19 % of full scale - 13...63 mV 25 °C 0.22 % of full scale 0...3850 Ohm 25 °C 0.22 % of full scale 0...5 V 25 °C 0.27 % of full scale 0...400 Ohm 0...60 °C 0.27 % of full scale +/- 10 V 25 °C 0.27 % of full scale +/- 5 V 25 °C 0.27 % of full scale 1...5 V 25 °C 0.39 % of full scale 0...10 V 0...60 °C 0.44 % of full scale - 13...63 mV 0...60 °C 0.45 % of full scale 0...5 V 0...60 °C 0.45 % of full scale 4...20 mA 25 °C 0.48 % of full scale 0...3850 Ohm 0...60 °C 0.5 % of full scale +/- 10 V 0...60 °C 0.5 % of full scale +/- 5 V 0...60 °C 0.56 % of full scale 1...5 V 0...60 °C 0.86 % of full scale 4...20 mA 0...60 °C 1 °C Ni 1000 25 °C 1.2 °C Pt 100 25 °C 1.5 °C thermocouple B external 25 °C 1.5 °C thermocouple E external 25 °C 1.5 °C thermocouple T external 25 °C 1.5 °C thermocouple U external 25 °C 1.8 °C thermocouple J external 25 °C 2 °C Ni 1000 0...60 °C 2 °C thermocouple L external 25 °C 2 °C thermocouple N external 25 °C 2.3 °C thermocouple K external 25 °C 2.4 °C Pt 100 0...60 °C 2.5 °C Pt 1000 25 °C 3.1 °C thermocouple U external 0...60 °C 3.2 °C thermocouple E external 0...60 °C 3.2 °C thermocouple T external 0...60 °C 3.2 °C thermocouple R external 25 °C 3.4 °C thermocouple S external 25 °C 3.5 °C thermocouple B external 0...60 °C 3.5 °C thermocouple B internal 25 °C 3.8 °C thermocouple J external 0...60 °C 4.1 °C thermocouple L external 0...60 °C 4.3 °C thermocouple N external 0...60 °C 4.7 °C thermocouple K external 0...60 °C 5 °C Pt 1000 0...60 °C 5.4 °C thermocouple U internal 25 °C 6 °C thermocouple N internal 25 °C 6 °C thermocouple R internal 25 °C 6.1 °C thermocouple E internal 25 °C 6.6 °C thermocouple S internal 25 °C 6.6 °C thermocouple T internal 25 °C 7.3 °C thermocouple U internal 0...60 °C 7.3 °C thermocouple J internal 25 °C 7.5 °C thermocouple L internal 25 °C 7.7 °C thermocouple R external 0...60 °C 7.8 °C thermocouple K internal 25 °C 8.1 °C thermocouple B internal 0...60 °C 8.1 °C thermocouple E internal 0...60 °C 8.5 °C thermocouple S external 0...60 °C 8.7 °C thermocouple N internal 0...60 °C 8.8 °C thermocouple T internal 0...60 °C 9.5 °C thermocouple J internal 0...60 °C 9.8 °C thermocouple L internal 0...60 °C 10.5 °C thermocouple K internal 0...60 °C 11 °C thermocouple R internal 0...60 °C 12 °C thermocouple S internal 0...60 °C |
| Isolation between channels and bus | 1780 Vrms |
| Isolation between channels and ground | 1780 Vrms |
| Common mode between channels | 415 V AC or 200 V DC |
| Common mode between channels and earth | 240 V AC or 110 V DC |
| Maximum overvoltage on input | -30...30 V at state 1 250 Ohm -15...15 V at state 0 250 Ohm |
| Electrical connection | Screw terminal block |

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|---------------------|---------------------------------|
| Overcurrent | -30...30 mA at state 1 250 kOhm |
| Marking | CE |
| Current consumption | 660 mA 5 V DC |
| Module format | Standard |
| Product weight | 0.32 kg |

Environment

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|---------------------------------------|---|
| Standards | DIN 43710 DIN 43760 IEC 1131 IEC 584 IEC 751 NFC 42-330 |
| Product certifications | ABS BV DNV (Det Norske Veritas) GL LR RINA RMRS |
| Ambient air temperature for operation | 0...60 °C |
| Ambient air temperature for storage | -25...70 °C |
| Relative humidity | 5...95 % without condensation for storage 10...95 % without condensation for operation |
| Operating altitude | 0...2000 m |
| Protective treatment | TC |
| IP degree of protection | IP20 |
| Pollution degree | 2 |
| RoHS EUR conformity date | 0826 |
| RoHS EUR status | Compliant |