

# TSXAEY414

## analog input module Modicon Premium - 4 I multirange



### Main

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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Complementary

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

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

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