

# TSXAEY414C

analog input module - 4 low level input -  
multirange - 16 bits

Product availability : Stock - Normally stocked in distribution facility

Price\* : 2087.25 USD



## Main

Range of product	Modicon Premium Automation platform
Product or component type	Analog input module
Input level	Low level
Analogue input number	4
Analogue input type	Current 4...20 mA Resistor 0...3850 Ohm Resistor 0...400 Ohm Temperature probe Ni 1000 2 wires Temperature probe Ni 1000 4 wires Temperature probe Pt 100 2 wires Temperature probe Pt 100 4 wires Temperature probe Pt 1000 2 wires Temperature probe Pt 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 +/- 5 V Voltage 0...10 V Voltage 0...5 V Voltage 1...5 V
Analog/Digital conversion	16 bits

## Complementary

Nominal read cycle time	550 ms
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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 +/- 10 V 25 °C 0.27 % of full scale +/- 5 V 25 °C 0.27 % of full scale 0...400 Ohm 0...60 °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 1.5 °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 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 2 °C thermocouple L external 25 °C 2 °C thermocouple N external 25 °C 2.3 °C thermocouple K external 25 °C 3.1 °C thermocouple U external 0...60 °C 3.2 °C thermocouple E external 0...60 °C 3.2 °C thermocouple R external 25 °C 3.2 °C thermocouple T external 0...60 °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 5.4 °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 J internal 25 °C 7.3 °C thermocouple U internal 0...60 °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 1 °C Ni 1000 25 °C 1.2 °C Pt 100 25 °C 2 °C Ni 1000 0...60 °C 2.4 °C Pt 100 0...60 °C 2.5 °C Pt 1000 25 °C 5 °C Pt 1000 0...60 °C
Isolation between channels and bus	1780 Vrms
Isolation between channels and ground	1780 Vrms
Isolation between channels	2830 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
Input overvoltage protection	-15...15 V at state 0 250 Ohm -30...30 V at state 1 250 Ohm

Electrical connection	Screw terminal block
Overcurrent	-25...25 mA at state 1 250 kOhm
Marking	CE
Current consumption	660 mA 5 V DC
Module format	Standard
Product weight	0.71 lb(US) (0.32 kg)

## Environment

Standards	IEC 1131 DIN 43760 DIN 43710 NFC 42-330 IEC 751 IEC 584
Product certifications	GL DNV RINA ABS BV LR RMRS
Ambient air temperature for operation	32...140 °F (0...60 °C)
Ambient air temperature for storage	-13...158 °F (-25...70 °C)
Relative humidity	10...95 % without condensation for operation 5...95 % without condensation for storage
Operating altitude	0...6561.68 ft (0...2000 m)
Protective treatment	Conformal coating Humiseal 1A33 TC
IP degree of protection	IP20
Pollution degree	2

## Ordering and shipping details

Category	22558 - TSX PREMIUM, ATRIUM & PL7 PRO
Discount Schedule	PC22
Nbr. of units in pkg.	1
Package weight(Lbs)	1
Returnability	N
Country of origin	FR

## Offer Sustainability

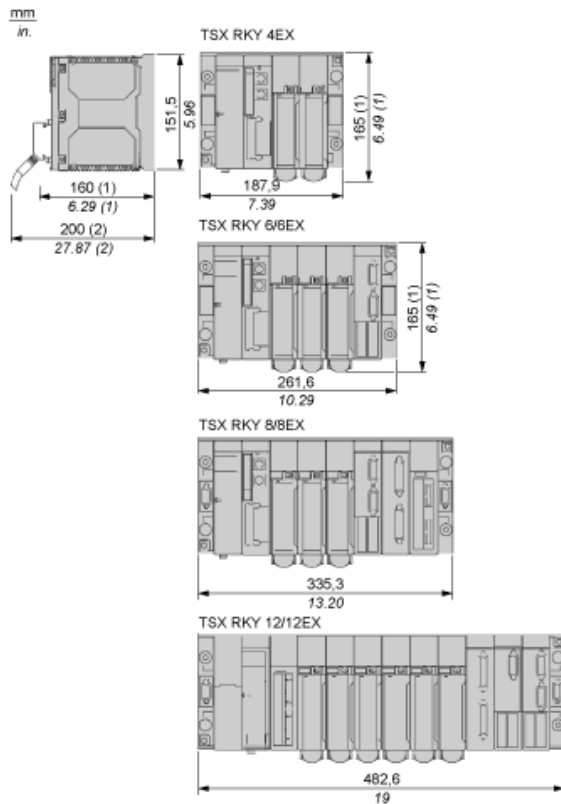
Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0826 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product end of life instructions	Need no specific recycling operations

## Contractual warranty

Warranty period	18 months
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## Standard and Extendable Racks for Modules Mounting

### Dimensions of Modules and Racks



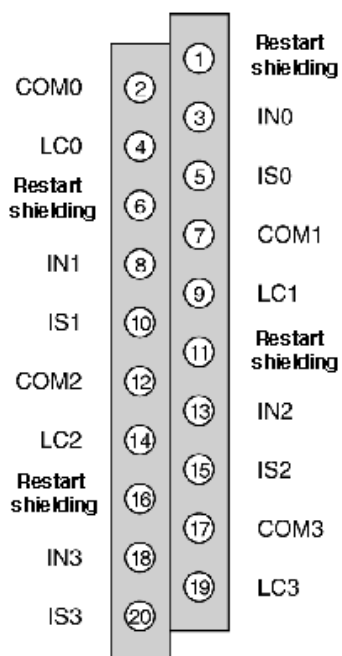
(1) With screw terminal block modules.

(2) Maximum depth for all types of modules and their associated connectors.

Analog Input Module (4-Channel, Voltage/Current/Thermocouple/Temperature Probe)

Terminal Block Pin Assignment

TSX BLY 01 terminal block



- INx + Pole input of channel x
- COMx - Pole input of channel x
- ISx + Pole supply of the probe
- LCx Line compensation