

# Product data sheet

Specifications



## fast analog input module Modicon Premium - 4 I multirange

TSXAEY420

! Discontinued on: 02 December 2020

! To be end-of-service on: 31 December 2026

! Discontinued - Service only

### Main

Range of Product	Modicon Premium Automation platform
Product or Component Type	Analog input module
Input level	High level
Analogue input number	4
Analogue input type	Current 0...20 mA Current 4...20 mA Voltage +/- 10 V Voltage 0...10 V Voltage 0...5 V Voltage 1...5 V
Analog/Digital conversion	16 bits

### Complementary

Nominal read cycle time	1 ms
Measurement error	0.1 % of full scale +/- 10 V 25 °C 0.1 % of full scale 0...10 V 25 °C 0.2 % of full scale +/- 10 V 0...60 °C 0.2 % of full scale 0...10 V 0...60 °C 0.2 % of full scale 0...20 mA 25 °C 0.2 % of full scale 0...5 V 25 °C 0.2 % of full scale 1...5 V 25 °C 0.2 % of full scale 4...20 mA 25 °C 0.4 % of full scale 0...20 mA 0...60 °C 0.4 % of full scale 0...5 V 0...60 °C 0.4 % of full scale 1...5 V 0...60 °C 0.4 % of full scale 4...20 mA 0...60 °C
Isolation between channels and bus	1000 Vrms
Isolation between channels and ground	1000 Vrms
Isolation between channels	Common point
Common mode between channels	None
Input overvoltage protection	-15...15 V at state 0 250 Ohm -30...30 V at state 1 250 Ohm
Electrical connection	1 connector SUB-D 25
Overcurrent	-30...30 mA at state 1 250 kOhm
Marking	CE
Current consumption	500 mA 5 V DC

<b>Module format</b>	Standard
<b>Net Weight</b>	0.73 lb(US) (0.33 kg)

## Environment

<b>Standards</b>	IEC 1131
<b>Product Certifications</b>	BV LR ABS RINA RMRS GL DNV
<b>Ambient Air Temperature for Operation</b>	32...140 °F (0...60 °C)
<b>Ambient Air Temperature for Storage</b>	-13...158 °F (-25...70 °C)
<b>Relative Humidity</b>	10...95 % without condensation for operation 5...95 % without condensation for storage
<b>Operating altitude</b>	0...6561.68 ft (0...2000 m)
<b>Protective treatment</b>	TC
<b>IP Degree of Protection</b>	IP20
<b>Pollution degree</b>	2

## Ordering and shipping details

<b>Category</b>	22558-TSX PREMIUM, ATRIUM & PL7 PRO
<b>Discount Schedule</b>	PC22
<b>GTIN</b>	3389110876338
<b>Returnability</b>	No
<b>Country of origin</b>	FR

## Packing Units

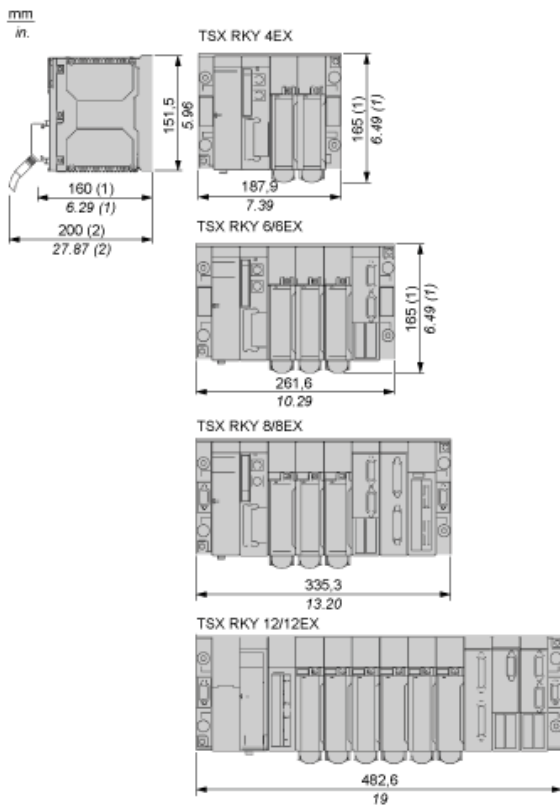
<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	2.17 in (5.5 cm)
<b>Package 1 Width</b>	7.09 in (18.0 cm)
<b>Package 1 Length</b>	10.24 in (26.0 cm)
<b>Package 1 Weight</b>	15.34 oz (435.0 g)

## Contractual warranty

<b>Warranty</b>	18 months
-----------------	-----------

**Standard and Extendable Racks for Modules Mounting**

**Dimensions of Modules and Racks**

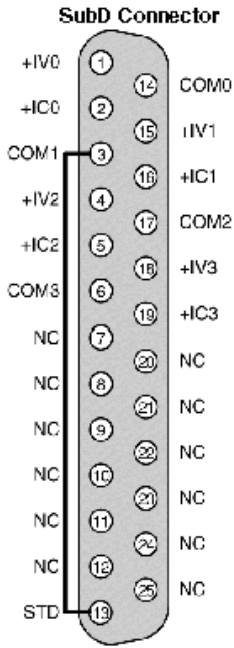


- (1) With screw terminal block modules.
- (2) Maximum depth for all types of modules and their associated connectors.

**Analog Input Module (4-Channel, Voltage/Current)**

---

**Connector Pin Assignment**




- NC** Pin not connected
  - +IVx** + Pole voltage input of channel x
  - +ICx** + Pole current input of channel x
  - COMx** - Pole current or voltage input of channel x
  - STD** The "strap" between pins 3 and 13 detects the unplugging of the connector.
- NOTE: The COM0, COM1, COM2, and COM3 pins are linked internally in the module.

**Recommended replacement(s)**

TSXAEY420 is replaced by:

---

1x		<p>isolated analog input module X80 - 4 inputs - high speed</p> <p>BMXAMI0410</p>
----	---	---

---