

Product data sheet

Specifications



Analog input module, Modicon Premium, 8 low level isolated inputs, 16 bits conversion, 475mA at 5VDC

TSXAEY810

! 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 | Low level |
| Analogue input number | 8 |
| 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 | 29.7 ms |
| Fast read cycle time | 3.3 ms + 3.3 ms x number of channels used |
| Measurement error | 0.12 % of full scale 0...20 mA 0...60 °C 0.12 % of full scale 4...20 mA 0...60 °C 0.13 % of full scale 0...5 V 25 °C 0.13 % of full scale 1...5 V 25 °C 0.142 % of full scale 0...20 mA 25 °C 0.142 % of full scale 4...20 mA 25 °C 0.191 % of full scale 0...5 V 0...60 °C 0.191 % of full scale 1...5 V 0...60 °C 0.244 % of full scale +/- 10 V 25 °C 0.244 % of full scale 0...10 V 25 °C 0.305 % of full scale +/- 10 V 0...60 °C 0.305 % of full scale 0...10 V 0...60 °C |
| Isolation between channels and bus | 1000 Vrms |
| Isolation between channels and ground | 1000 Vrms |
| Isolation between channels | +/- 200 V |
| Common mode between channels | +/- 200 |
| 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 | 475 mA 5 V DC |
| Module format | Standard |
| Net Weight | 0.73 lb(US) (0.33 kg) |

Environment

| | |
|---------------------------------------|---|
| Standards | IEC 1131 |
| Product Certifications | ABS RINA LR BV DNV GL 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 | TC |
| IP Degree of Protection | IP20 |
| Pollution degree | 2 |

Ordering and shipping details

| | |
|-------------------|-------------------------------------|
| Category | 22558-TSX PREMIUM, ATRIUM & PL7 PRO |
| Discount Schedule | PC22 |
| GTIN | 3389110876345 |
| Returnability | No |
| Country of origin | FR |

Packing Units

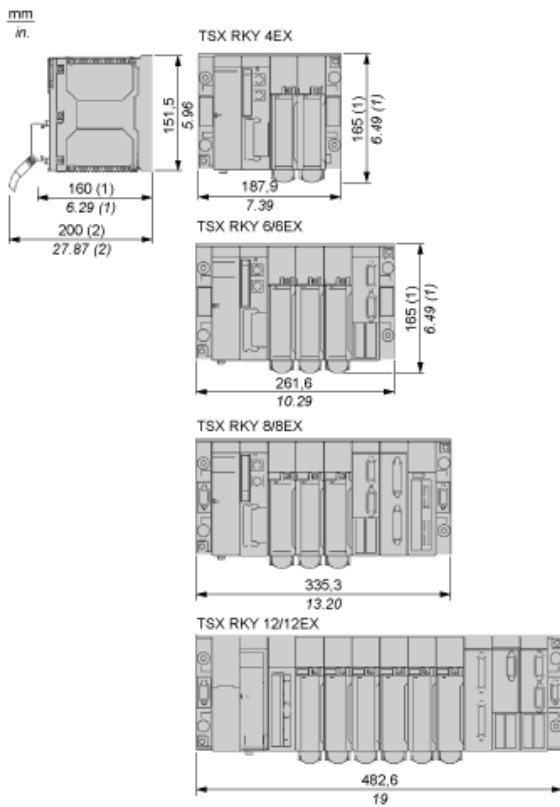
| | |
|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.17 in (5.5 cm) |
| Package 1 Width | 7.09 in (18.0 cm) |
| Package 1 Length | 10.24 in (26.0 cm) |
| Package 1 Weight | 15.31 oz (434.0 g) |
| Unit Type of Package 2 | S04 |
| Number of Units in Package 2 | 12 |
| Package 2 Height | 11.81 in (30.0 cm) |
| Package 2 Width | 15.75 in (40.0 cm) |
| Package 2 Length | 23.62 in (60.0 cm) |
| Package 2 Weight | 13.57 lb(US) (6.155 kg) |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Standard and Extendable Racks for Modules Mounting

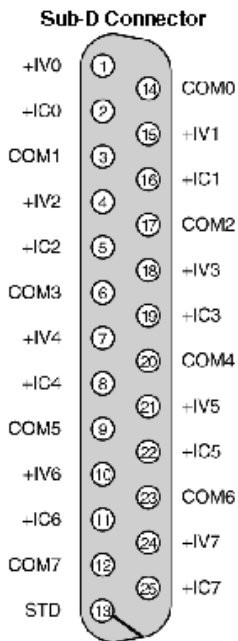
Dimensions of Modules and Racks



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

Analog Input Module (8-Channel, Voltage/Current)


Connector Pin Assignment



- +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 pin 13 and the ground (using a cover) is used to detect connector unpinning.

Recommended replacement(s)

TSXAEY810 is replaced by:

| | | |
|----|---|---|
| 1x |  | <p>analog isolated high level input module, Modicon X80, 8 inputs, 0 to 20mA, 4 to 20mA, 10V positive or negative</p> <p>BMXAMI0810</p> |
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