

Product datasheet

Specifications



Analog input module, Modicon Premium, 16 high level inputs, 12 bits conversion. 270mA at 5VDC

TSXAEY1600

! To be discontinued on: 31 December 2026

! 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	16
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	12 bits

Complementary

Nominal read cycle time	51 ms
Fast read cycle time	3 ms + 3 ms x number of channels used
Measurement error	0.1 % of full scale +/- 10 V 25 °C 0.1 % of full scale 0...10 V 25 °C 0.1 % of full scale 0...5 V 25 °C 0.1 % of full scale 1...5 V 25 °C 0.13 % of full scale +/- 10 V 0...60 °C 0.13 % of full scale 0...10 V 0...60 °C 0.13 % of full scale 0...5 V 0...60 °C 0.13 % of full scale 1...5 V 0...60 °C 0.16 % of full scale 0...20 mA 25 °C 0.16 % of full scale 4...20 mA 25 °C 0.32 % of full scale 0...20 mA 0...60 °C 0.32 % 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 kOhm -30...30 V at state 1 250 kOhm
Electrical connection	2 connectors SUB-D 25
Overcurrent	-30...30 mA at state 1 250 kOhm
Marking	CE

Current consumption	270 mA at 5 V DC
Module format	Standard
Product weight	0.34 kg

Environment

Standards	IEC 1131
Product certifications	BV GL LR DNV RINA ABS RMRS
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-25...70 °C
Relative humidity	10...95 % without condensation for operation 5...95 % without condensation for storage
Operating altitude	0...2000 m
Protective treatment	TC
IP degree of protection	IP20
Pollution degree	2

Packing Units

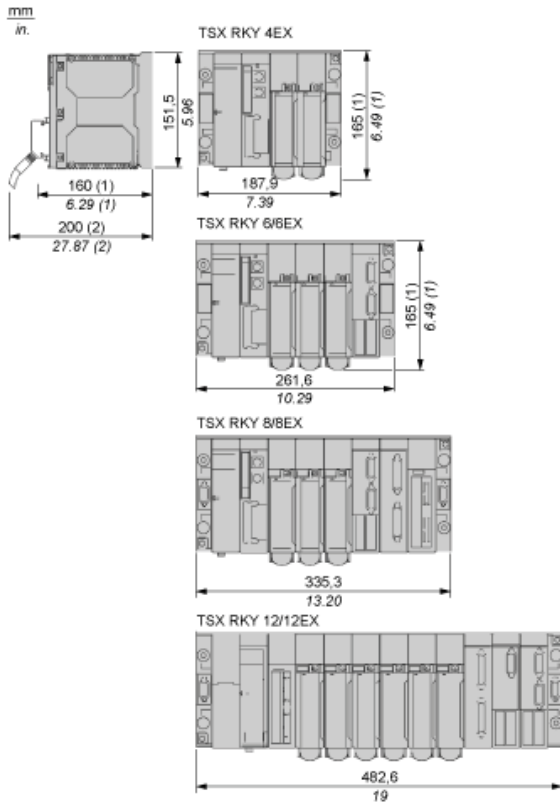
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.5 cm
Package 1 Width	18.0 cm
Package 1 Length	26.0 cm
Package 1 Weight	447.0 g
Unit Type of Package 2	S04
Number of Units in Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	6.311 kg

Contractual warranty

Warranty	18 months
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Standard and Extendable Racks for Modules Mounting

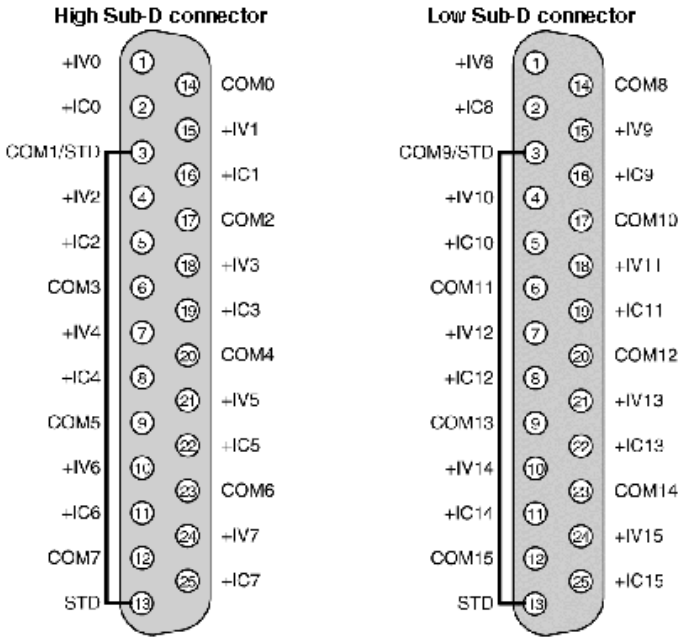
Dimensions of Modules and Racks



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

Analog Input Module (16-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 pins 3 and 13 detects the unplugging of the connector.

NOTE: The COMx pins are linked internally in the module.

Recommended replacement(s)

TSXAEY1600 is replaced by:

1x



isolated analog input module X80 - 8 inputs - high speed
BMXAMI0810