



## Commercial status

End of Commercialisation :

⚠ End of Commercialisation

## 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<br>Current 4...20 mA<br>Voltage +/- 10 V<br>Voltage 0...10 V<br>Voltage 0...5 V<br>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<br>0.1 % of full scale 0...10 V 25 °C<br>0.1 % of full scale 0...5 V 25 °C<br>0.1 % of full scale 1...5 V 25 °C<br>0.13 % of full scale +/- 10 V 0...60 °C<br>0.13 % of full scale 0...10 V 0...60 °C<br>0.13 % of full scale 0...5 V 0...60 °C<br>0.13 % of full scale 1...5 V 0...60 °C<br>0.16 % of full scale 0...20 mA 25 °C<br>0.16 % of full scale 4...20 mA 25 °C<br>0.32 % of full scale 0...20 mA 0...60 °C<br>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 Ohm<br>-30...30 V at state 1 250 Ohm                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Net weight                            | 0.34 Kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Environment

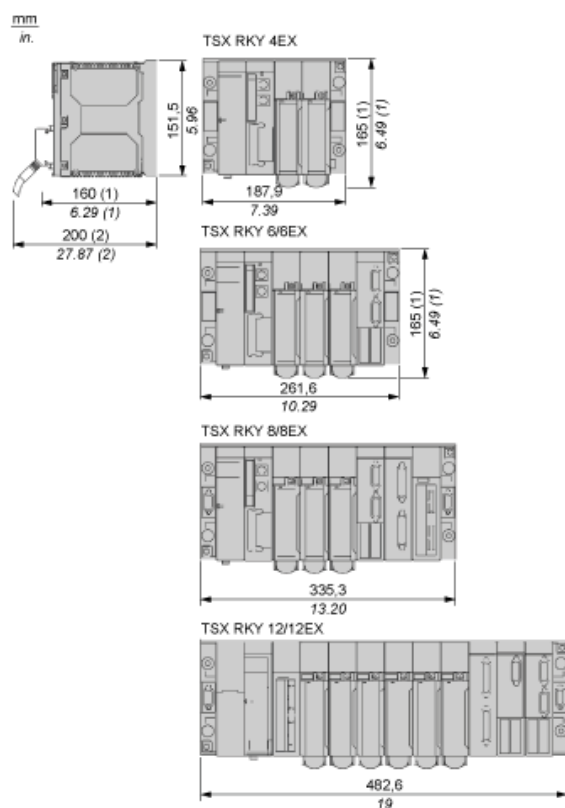
|                                       |                                                                                           |
|---------------------------------------|-------------------------------------------------------------------------------------------|
| Standards                             | IEC 1131                                                                                  |
| Product certifications                | RMRS<br>RINA<br>GL<br>ABS<br>LR<br>DNV<br>BV                                              |
| Ambient air temperature for operation | 0...60 °C                                                                                 |
| Ambient air temperature for storage   | -25...70 °C                                                                               |
| Relative humidity                     | 10...95 % without condensation for operation<br>5...95 % without condensation for storage |
| Operating altitude                    | 0...2000 m                                                                                |
| Protective treatment                  | Conformal coating Humiseal 1A33<br>TC                                                     |
| IP degree of protection               | IP20                                                                                      |
| Pollution degree                      | 2                                                                                         |

## Contractual warranty

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

## Standard and Extendable Racks for Modules Mounting

### Dimensions of Modules and Racks

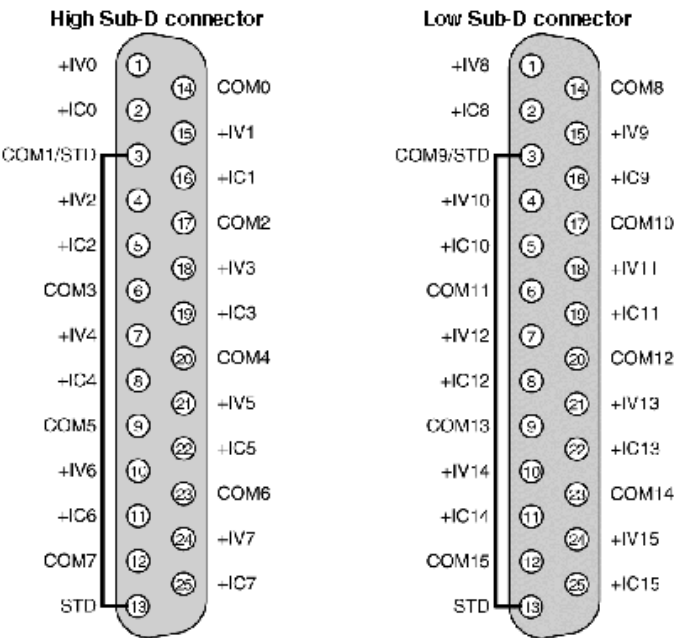


(1) With screw terminal block modules.

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

Analog Input Module (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.

Product Life Status : **Post commercialisation**

TSXAEY1600C may be replaced by any of the following products:



**BMXAMI0810H**  
isolated analog input module X80 - 8 inputs - high speed -for severe environment  
Qty 1  
Reason for Substitution: End of life | Substitution date: 31 Dec 2017 | Not same dimensions/design - less channel 8 vs.Premium 16 analog input



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