

# TPRAN2X1

Analog IO module, TeSys island, 2 inputs, 1 output, 24VDC, Twisted shielded pairs cable



## Main

Range	TeSys
Product name	TeSys island
Device short name	TPRAN
Product or Component Type	Analog IO module
Device presentation	IO module providing 2 analog inputs and 1 analog output Enabling advanced control functions in a TeSys island system Operational only when connected to a bus coupler TPRBC
Function of module	Measurement of voltage, current or temperature on 2 configurable analog inputs Driving voltage or current source on 1 configurable analog output
Product compatibility	TPRBC bus coupler
Analogue input number	2 isolated with common point
Analogue input type	Current 4...20 mA Current 0...20 mA Voltage 0...10 V Voltage - 10...10 V Temperature probe - 60...180 °C Ni 100 Temperature probe - 60...180 °C Ni 1000 Temperature probe -200...+850 °C Pt 100 Temperature probe - 200...600 °C Pt 1000 Thermocouple - 200...1000 °C thermocouple J Thermocouple - 200...1300 °C thermocouple K Thermocouple 0...1760 °C thermocouple R Thermocouple 0...1760 °C thermocouple S Thermocouple 0...1820 °C thermocouple B Thermocouple - 200...400 °C thermocouple T Thermocouple - 200...1300 °C thermocouple N Thermocouple - 200...800 °C thermocouple E Thermocouple 0...2315 °C thermocouple C
Measurement accuracy	+/- 0.1 % of full scale voltage +/- 0.1 % of full scale current +/- 0.1 % of full scale temperature probe +/- 0.1 % of full scale in positive temperature range thermocouple +/- 0.4 % of full scale in negative temperature range thermocouple
Analogue input resolution	15 bits + sign full scale
Input impedance	<= 50 Ohm current >= 1 MOhm voltage >= 1 MOhm thermocouple >= 1 MOhm temperature probe
Analogue output number	1 isolated
Analogue output type	Current 4...20 mA Current 0...20 mA Voltage 0...10 V Voltage - 10...10 V
Analogue output resolution	12 bits, 4...20 mA full scale 12 bits, 0...20 mA full scale 12 bits, 0...10 V full scale 11 bits + sign, - 10...10 V full scale
Type of cable	Twisted shielded pairs cable <98.43 ft (30 m) input/output
Local signalling	For DS (device status) 1 LED (green/red)

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## Complementary

[Us] rated supply voltage	24 V DC supplied by the bus coupler
Current consumption	160 mA
Power dissipation in W	0.5 W maximum
[Uimp] rated impulse withstand voltage	0.5 kV IEC 61010-1
Standards	IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201
Product certifications	CSA UL EAC (pending)
Mounting mode	Horizontal and vertical 35 mm symmetrical rail)
Connections - terminals	Input/Output circuit removable spring terminal block 8 0.00...0.00 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)rigid Input/Output circuit removable spring terminal block 8 0.00...0.00 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible without cable end Input/output circuit removable spring terminal block 8 0.00...0.00 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) AWG 22...AWG 14)flexible with cable end
Width	0.98 in (25 mm)
Height	4.65 in (118 mm)
Depth	4.49 in (114 mm)
Net Weight	0.38 lb(US) (0.172 kg)

## Environment

Ambient air temperature for storage	-13...158 °F (-25...70 °C)
Ambient Air Temperature for Operation	14...140 °F (-10...60 °C)
Relative Humidity	5...95 %
Operating altitude	0...6561.68 ft (0...2000 m) without derating
IP degree of protection	IP20
Pollution degree	2
Protective treatment	TC
Fire resistance	1760 °F (960 °C) UL 94
Shock resistance	15 gn 11 ms) IEC 60068-2-27
Vibration resistance	1.5 mm peak to peak 3...13 Hz) IEC 60068-2-6 1 gn 13...200 Hz) IEC 60068-2-6
Electromagnetic compatibility	Electrostatic discharge immunity test, level 3, 8 kV air, 6 kV contact, conforming to EN/IEC 61000-4-2 Radiated RF fields, level 3, 10 V/m, conforming to EN/IEC 61000-4-3 Fast transients immunity test, level 3, 2 kV, conforming to EN/IEC 61000-4-4 Surge immunity test (common mode), level 3, 2 kV, conforming to EN/IEC 61000-4-5

## Ordering and shipping details

Category	22353-TESYS ISLAND AUXILIARY DEVICES
Discount Schedule	I12
GTIN	3606489832902
Returnability	Yes
Country of origin	ID

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.56 in (6.5 cm)
Package 1 Width	5.31 in (13.5 cm)
Package 1 Length	6.10 in (15.5 cm)
Package 1 Weight	8.85 oz (251.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	16

Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	10.57 lb(US) (4.793 kg)

### Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Halogen content performance	Halogen free plastic parts product

### Contractual warranty

Warranty	18 months
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