

Product availability : Stock - Normally stocked in distribution facility



Main

Range of product	Modicon STB distributed I/O solution
Product or component type	Standard analog input kit
Kit composition	STBXBA1000 base STBXTS1100, 6-terminal screw type connector STBART0200 module STBXTS2100, 6-terminal spring clamp connector
Analogue input type	Voltage +/- 80 mV Temperature probe -100...+260 °C Cu 10 2, 3 or 4 wires IEC Temperature probe -100...+450 °C Pt 100 2, 3 or 4 wires US/JIS Temperature probe -100...+450 °C Pt 1000 2, 3 or 4 wires US/JIS Temperature probe -200...+850 °C Pt 100 2, 3 or 4 wires IEC Temperature probe -200...+850 °C Pt 1000 2, 3 or 4 wires IEC Temperature probe -60...+180 °C Ni 100 2, 3 or 4 wires IEC Temperature probe -60...+180 °C Ni 1000 2, 3 or 4 wires IEC Thermocouple +130...+1820 °C thermocouple B Thermocouple -200...+760 °C thermocouple J Thermocouple -270...+1000 °C thermocouple E Thermocouple -270...+1370 °C thermocouple K Thermocouple -270...+400 °C thermocouple T Thermocouple -50...+1665 °C thermocouple R Thermocouple -50...+1665 °C thermocouple S
Analogue input number	2
Analogue input resolution	15 bits + sign
Type of filter	Single low pass input filter 25 Hz

Complementary

Absolute maximum input	+/- 7.5 V DC
Cold swapping	Yes
Hot swapping fallback	Yes for standard NIMs
Fallback status	State 0 basic NIMs User configurable standard NIMs
Data format	EN 61131-2 IEC 61131-2

Input impedance	10 MOhm +/- 80 mV
Supply current for sensors	100 mA per input channels
Protection type	Short-circuit protection
Absolute accuracy error	+/- 0.1 % of full scale 25 °C internal +/- 0.15 % of full scale 25 °C external
Insulation between channels and logic bus	1500 V for 1 minute
Addressing requirement	2 input words 1 word for cold-junction compensation
Product compatibility	Power distribution module STBPDT3100/3105 Mounting base STBXBA1000
[Us] rated supply voltage	24 V DC
Supply	Power distribution module
Current consumption	30 mA 5 V DC logic bus
Measurement resolution	0.01 mV voltage 0.1 °C or 0.1 °F temperature probe 0.1 °C or 0.1 °F thermocouple
Conversion time	150 ms voltage 60 Hz 170 ms voltage 50 Hz 180 ms temperature probe 60 Hz 2 or 4 wires 200 ms temperature probe 50 Hz 2 or 4 wires 210 ms thermocouple with internal cold-junction compensation 60 Hz 230 ms thermocouple with internal cold-junction compensation 50 Hz 300 ms temperature probe 60 Hz 3 wires 340 ms temperature probe 50 Hz 3 wires 360 ms thermocouple with external cold-junction compensation 60 Hz 400 ms thermocouple with external cold-junction compensation 50 Hz
Maximum wiring resistance	20 Ohm Cu 10 IEC/US/JIS 2 or 3 wires 20 Ohm Ni 100 IEC/US/JIS 2 or 3 wires 20 Ohm Pt 100 IEC/US/JIS 2 or 3 wires 200 Ohm Ni 1000 IEC/US/JIS 2 or 3 wires 200 Ohm Pt 1000 IEC/US/JIS 2 or 3 wires 50 Ohm Cu 10 IEC/US/JIS 4 wires 50 Ohm Ni 100 IEC/US/JIS 4 wires 50 Ohm Pt 100 IEC/US/JIS 4 wires 500 Ohm Ni 1000 IEC/US/JIS 4 wires 500 Ohm Pt 1000 IEC/US/JIS 4 wires
Measurement accuracy	+/- 1 °C Ni 100 25 °C external +/- 1 °C Ni 100 25 °C internal +/- 1 °C Ni 1000 25 °C external +/- 1 °C Ni 1000 25 °C internal +/- 1 °C Pt 100 25 °C internal +/- 1 °C Pt 1000 25 °C internal +/- 1.75 °C thermocouple B with external cold-junction compensation 77 °F (25 °C) +/- 1.75 °C thermocouple E with external cold-junction compensation 77 °F (25 °C) +/- 1.75 °C thermocouple J with external cold-junction compensation 77 °F (25 °C) +/- 1.75 °C thermocouple K with external cold-junction compensation 77 °F (25 °C) +/- 1.75 °C thermocouple R with external cold-junction compensation 77 °F (25 °C) +/- 1.75 °C thermocouple S with external cold-junction compensation 77 °F (25 °C) +/- 1.75 °C thermocouple T with external cold-junction compensation 77 °F (25 °C) +/- 2 °C Pt 100 25 °C external +/- 2 °C Pt 1000 25 °C external +/- 2.85 °C thermocouple B with external cold-junction compensation 140 °F (60 °C) +/- 2.85 °C thermocouple E with external cold-junction compensation 140 °F (60 °C) +/- 2.85 °C thermocouple J with external cold-junction compensation 140 °F (60 °C) +/- 2.85 °C thermocouple K with external cold-junction compensation 140 °F (60 °C) +/- 2.85 °C thermocouple R with external cold-junction compensation 140 °F (60 °C) +/- 2.85 °C thermocouple S with external cold-junction compensation 140 °F (60 °C) +/- 2.85 °C thermocouple T with external cold-junction compensation 140 °F (60 °C) +/- 3.6 °C thermocouple R with internal cold-junction compensation 77 °F (25 °C) +/- 4 °C Cu 10 25 °C external +/- 4 °C Cu 10 25 °C internal +/- 4 °C thermocouple K with internal cold-junction compensation 77 °F (25 °C) +/- 4.1 °C thermocouple S with internal cold-junction compensation 77 °F (25 °C) +/- 4.2 °C thermocouple R with internal cold-junction compensation 140 °F (60 °C) +/- 4.4 °C thermocouple T with internal cold-junction compensation 77 °F (25 °C) +/- 4.6 °C thermocouple B with internal cold-junction compensation 77 °F (25 °C) +/- 4.6 °C thermocouple E with internal cold-junction compensation 77 °F (25 °C) +/- 5 °C thermocouple S with internal cold-junction compensation 140 °F (60 °C) +/- 5.1 °C thermocouple J with internal cold-junction compensation 77 °F (25 °C)

+/- 5.5 °C thermocouple K with internal cold-junction compensation 140 °F (60 °C)
 +/- 6.4 °C thermocouple T with internal cold-junction compensation 140 °F (60 °C)
 +/- 6.8 °C thermocouple B with internal cold-junction compensation 140 °F (60 °C)
 +/- 6.8 °C thermocouple E with internal cold-junction compensation 140 °F (60 °C)
 +/- 7 °C thermocouple J with internal cold-junction compensation 140 °F (60 °C)

Marking	CE
Overvoltage category	II
Status LED	1 LED green module status (RDY) 1 LED red module error (ERR)

Environment

Product certifications	FM Class 1 Division 2 ATEX Cat 3G C-Tick UL CSA
Pollution degree	2 IEC 60664-1
Operating altitude	<= 6561.68 ft (2000 m)
IP degree of protection	IP20 EN 61131-2 class 1
Ambient air temperature for operation	32...158 °F (0...70 °C)
Ambient air temperature for operation	32...140 °F without
Ambient air temperature for storage	-40...185 °F (-40...85 °C) without
Ambient air temperature for storage	-40...185 °F without
Relative humidity	95 % 140 °F (60 °C) without condensation
Vibration resistance	+/-0.35 mm 10...58 Hz 3 gn 58...150 Hz 35 x 7.5 mm symmetrical DIN rail 5 gn 58...150 Hz 35 x 15 mm symmetrical DIN rail
Shock resistance	30 gn 11 ms IEC 88 reference 2-27

Ordering and shipping details

Category	18215 - ADVANTYS STB I/O
Discount Schedule	PC32
GTIN	00785901478515
Nbr. of units in pkg.	1
Package weight(Lbs)	0.2999999999999999
Returnability	Y
Country of origin	FR

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0825 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months
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