

Product datasheet

Specifications



standard analog input kit STB - +/- 10 V - 4 I - 15 bits + sign

STBAVI0300K

Price: 7,249.31 ZAR

Main

Range Of Product	Modicon STB distributed I/O solution
Product Or Component Type	Standard analog input kit
Kit Composition	STBAVI0300 module STBXTS1100, 6-terminal screw type connector STBXTS2100, 6-terminal spring clamp connector STBXBA1000 base
Analogue Input Type	Voltage +/- 10 V Voltage +/- 5 V Voltage 0...10 V Voltage 0...5 V Voltage 1...5 V
Analogue Input Number	4
Analogue Input Resolution	15 bits + sign
Type Of Filter	Single low pass input filter 25 Hz

Complementary

Absolute Maximum Input	50 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
Integral Linearity	+/- 0.2 %FS
Differential Linearity	Monotonic
Input Impedance	400 kOhm
Maximum Supply Current For Sensors	100 mA per input channels
Maximum Source Impedance	1 kOhm
Absolute Accuracy Error	+/- 0.75 % of full scale 25 °C
Temperature Drift	+/-0.01 %/°C
Insulation Between Channels And Logic Bus	1500 V for 1 minute
Insulation Between Channels And Sensor Bus	30 V
Addressing Requirement	2 input words
Product Compatibility	Mounting base STBXBA1000 Power distribution module STBPDT3100/3105
[Us] Rated Supply Voltage	24 V DC

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Supply	Power distribution module
Current Consumption	90 mA at 5 V DC for logic bus
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 UL CSA ATEX Cat 3G C-Tick
Pollution Degree	2 conforming to IEC 60664-1
Operating Altitude	<= 2000 m
Ip Degree Of Protection	IP20 conforming to IEC 61131-2 class 1
Ambient Air Temperature For Operation	-25...70 °C
Ambient Air Temperature For Operation	- 13...158 °F without derating
Ambient Air Temperature For Storage	-40...85 °C without derating
Ambient Air Temperature For Storage	-40...185 °F without derating
Relative Humidity	95 % at 60 °C without condensation
Vibration Resistance	+/-0.35 mm at 10...58 Hz 3 gn at 58...150 Hz on 35 x 7.5 mm symmetrical DIN rail 5 gn at 58...150 Hz on 35 x 15 mm symmetrical DIN rail
Shock Resistance	30 gn for 11 ms conforming to IEC 88 reference 2-27

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.0 cm
Package 1 Width	8.0 cm
Package 1 Length	13.0 cm
Package 1 Weight	149.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	28
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.598 kg
Unit Type Of Package 3	PAL
Number Of Units In Package 3	448
Package 3 Height	60.0 cm
Package 3 Width	80.0 cm
Package 3 Length	448.0 cm

Package 3 Weight	66.752 kg
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Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

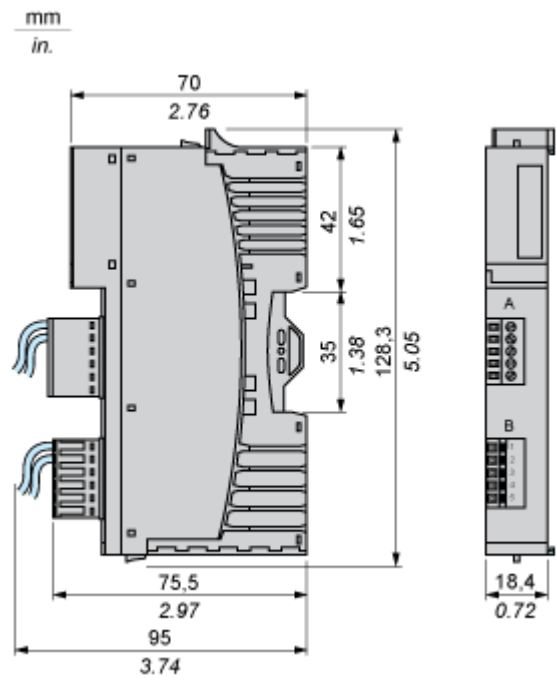
[Guide to assess a product’s sustainability >](#)

Well-being performance

 Mercury Free	
 Rohs Exemption Information	Yes
Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions

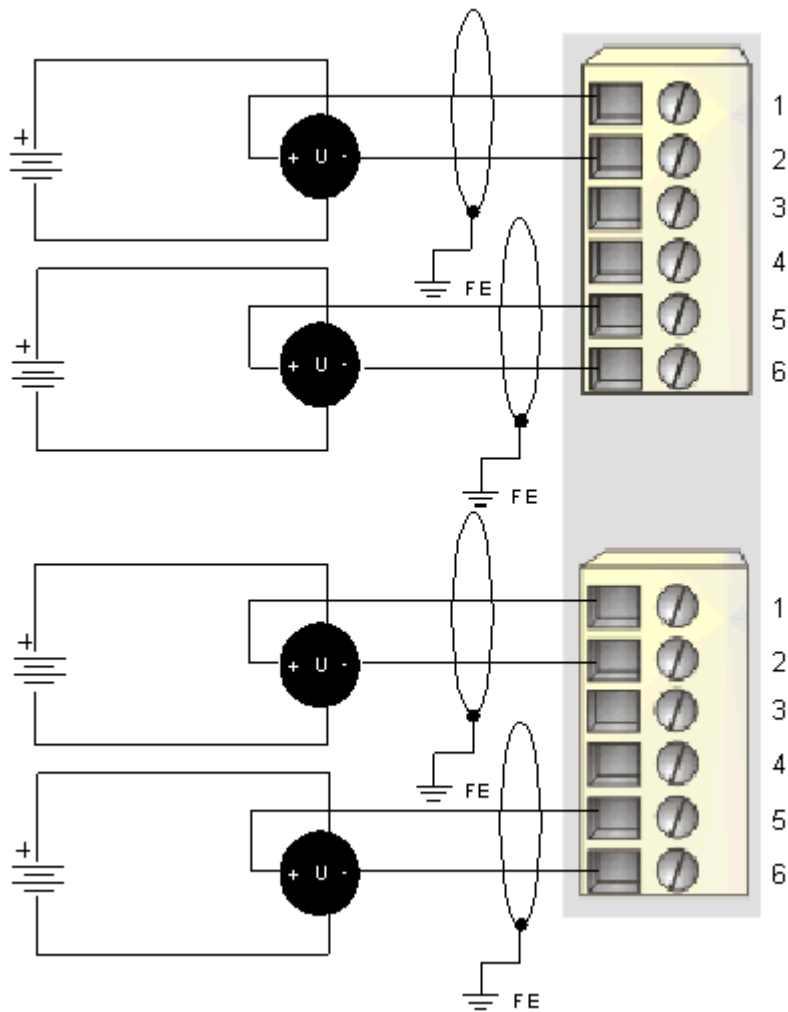


Connections and Schema

Wiring Diagram

Example

4 isolated analog sensors, external 24 VDC power supplies



Pin	Top Connections	Bottom Connections
1	voltage in 1+	voltage in 3+
2	voltage in 1 -	voltage in 3-
3	no connection	no connection
4	no connection	no connection
5	voltage in 2+	voltage in 4+
6	voltage in 2-	voltage in 4-