Product data sheet

Specifications



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

STBAVI0300K

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 010 V	
	Voltage 05 V	
	Voltage 15 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

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	-2570 °C	
Ambient Air Temperature For Operation	- 13158 °F without derating	
Ambient Air Temperature For Storage	-4085 °C without derating	
Ambient Air Temperature For Storage	-40185 °F without derating	
Relative Humidity	95 % at 60 °C without condensation	
Vibration Resistance	+/-0.35 mm at 1058 Hz 3 gn at 58150 Hz on 35 x 7.5 mm symmetrical DIN rail 5 gn at 58150 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

PCE
1
3.0 cm
8.0 cm
13.0 cm
149.0 g
S02
28
15.0 cm
30.0 cm
40.0 cm
4.598 kg
PAL
448
60.0 cm
80.0 cm
448.0 cm

Package 3 Weight

66.752 kg

Contractual warranty

Warranty

18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass 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 >

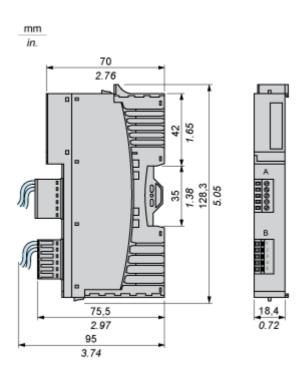
Well-being performance

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	
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	

Product data sheet

Dimensions Drawings

Dimensions



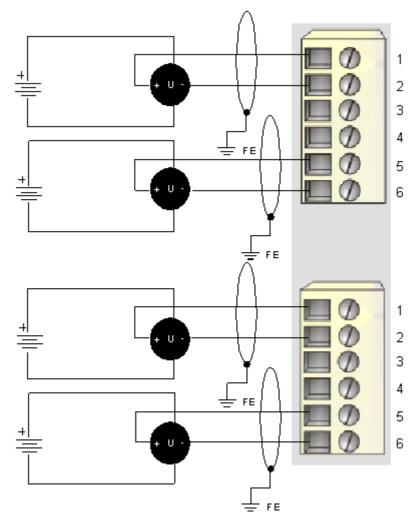
Product data sheet

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-