

Product Datasheet

Characteristic

STBAVI1400K

standard analog input kit STB - +/- 10 V - 8 I - 15 bits + sign



Main

range of product	Modicon STB distributed I/O solution
product or component type	standard analog input kit
kit composition	STBAVI1400 module STBXBA1000 base STBXTS1100, 6-terminal screw type connector STBXTS2100, 6-terminal spring clamp connector
analogue input type	voltage +/- 10 V voltage +/- 5 V voltage 0...10 V voltage 0...5 V voltage 1...5 V
analogue input number	8
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
update time	22 ms
integral linearity	+/- 0.2 %FS
differential linearity	monotonic
input impedance	400 kOhm
supply current for sensors	100 mA per input channels
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 5 V DC logic bus
marking	CE
overvoltage category	II
status LED	1 LED green module status (RDY) 1 LED red module error (ERR)

Environment

product certifications	ATEX Cat 3G CSA C-Tick FM Class 1 Division 2 UL
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	-13...158 °F (-25...70 °C)
ambient air temperature for operation	- 13...158 °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

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0904 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available