

Product data sheet

Specifications



standard analog input module STB - +/- 10 V - 2 I - 11 bits + sign

STBAVI1270

❗ Discontinued on: 09 September 2009

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Main

Range of product	Modicon STB distributed I/O solution
Product or component type	Standard analog input module
Analogue input type	Voltage +/- 10 V
Analogue input number	2
Analogue input resolution	11 bits + sign
Type of filter	Single low pass input filter 25 Hz

Complementary

Absolute maximum input	50 V DC
Response time	5 ms
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	10 ms
Integral linearity	+/- 0.2 %FS
Differential linearity	Monotonic
Input impedance	400000 Ohm
Maximum supply current for sensors	100 mA per input channels
Protection type	Short-circuit protection
Maximum source impedance	1 kOhm
Absolute accuracy error	+/- 0.5 % 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	4 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	30 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)
Product weight	0.115 kg

Environment

Product certifications	C-Tick UL CSA ATEX Cat 3G FM Class 1 Division 2
Pollution degree	2 conforming to IEC 60664-1
Operating altitude	<= 2000 m
IP degree of protection	IP20 conforming to EN 61131-2 class 1
Ambient air temperature for operation	0...60 °C 32...140 °F without derating
Ambient air temperature for storage	-40...85 °C without derating -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

Contractual warranty

Warranty	18 months
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Recommended replacement(s)

STBAVI1270 is replaced by:

1x		analog input kit, Modicon STB, standard, +/- 10V, 2 I, 11bits with sign STBAVI1270K
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