

Schneider Service Manual

STBACI1230K

1. Description

Schneider Electric STBACI1230K

3. Product Information

Schneider Electric STBACI1230K

standard analog input kit STB - 0...20 mA - 2 I - 12 bits

Main

Range of product Modicon STB distributed I/O solution

Product or component type Standard analog input kit

Kit composition STBACI1230 module

STBXBA1000 base

STBXTS1100, 6-terminal screw type connector

STBXTS2100, 6-terminal spring clamp connector

Analogue input type Current 0...20 mA

Analogue input number 2

Analogue input resolution 12 bits

Type of filter Single low pass input filter 25 Hz

Complementary

Absolute maximum input 25 mA/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 +/- 0.1 %FS

Differential linearity Monotonic

Input impedance <= 300 Ohm

Supply current for sensors 100 mA per input channels

Protection type Short-circuit protection

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 5 V DC logic bus

Marking CE

Overvoltage category II

Status LED 1 LED green module status (RDY)

1 LED red module error (ERR)

Depth 70 mm

Height 13.9 mm

Width 128.3 mm

Product weight 0.116 kg

Environment

Product certifications ATEX Cat 3G

CSA

C-Tick

FM Class 1 Division 2

UL

Pollution degree 2 IEC 60664-1

Operating altitude <= 2000 m

IP degree of protection IP20 EN 61131-2 class 1

Ambient air temperature for operation -25...70 °C

Ambient air temperature for operation 32...140 °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 % 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