Product data sheet

Specifications

standard analog output HART kit STB - 4..20 mA - 2 O - 15 bits + sign

STBACO8220K

Main

Range Of Product	Modicon STB distributed I/O solution
Product Or Component Type	Standard analog output kit
Kit Composition	STBACO8220 module STBXBA2000 base STBXTS2100, 6-terminal spring clamp connector STBXTS1100, 6-terminal screw type connector
Analogue Output Type	Current: 4...20 mA
Analogue Output Number	2
Analogue Output Resolution	15 bits + sign

Complementary

Analogue Output Current	0.02 A
Response Time	40 ms plus update time
Cold Swapping	Yes
Hot Swapping	Yes for standard NIMs
Fallback	State 0 basic NIMs User configurable standard NIMs
Data Format	EN 61131-2 IEC 61131-2
Update Time	8 ms
Integral Linearity	+/- 0.05 %FS
Differential Linearity	Monotonic
Absolute Accuracy Error	+/- 0.3 % of full scale at 25 °C
Temperature Drift	+/-0.005 %/°C
Insulation Between Channels And Logic Bus	1500 V for 1 minute
Insulation Between Channels And Actuator Bus	200 V
Product Compatibility	Power distribution module STBPDT3100/3105 Mounting base STBXBA1000
[Us] Rated Supply Voltage	24 V DC
Supply	Power distribution module
Current Consumption	210 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)
Depth	70 mm
Height	18.4 mm
Width	128.3 mm

Environment

Product Certifications	UL FM Class 1 Division 2 CSA
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	0…60 °C (without)
Ambient Air Temperature For Operation	32...140 °F without
Ambient Air Temperature For Storage	-40…85 °C without
Ambient Air Temperature For Storage	-40...185 °F without
Relative Humidity	95 % at 60 °C without condensation
Vibration Resistance	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 +/-0.35 mm at 10…58 Hz
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	2.700 cm
Package 1 Width	8.000 cm
Package 1 Length	13.000 cm
Package 1 Weight	136.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	28
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.234 kg

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-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.
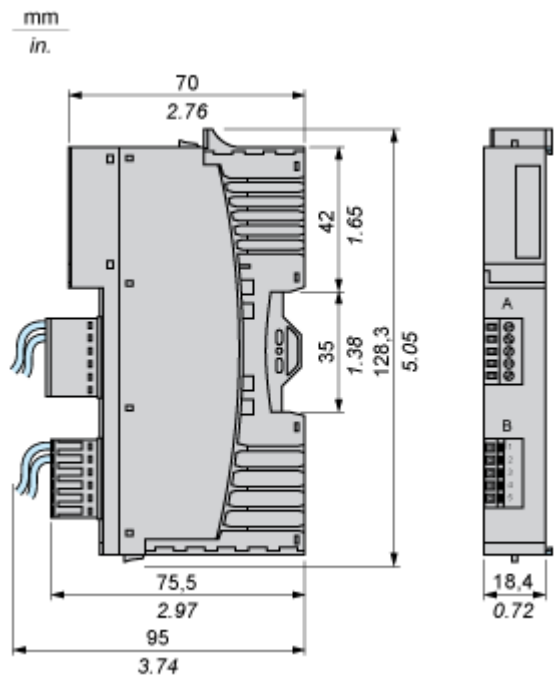
Learn more about Green Premium >

Guide to assess a product's sustainability >

Well-being performance

✅ Mercury Free

✅ Rohs Exemption Information　　　Yes

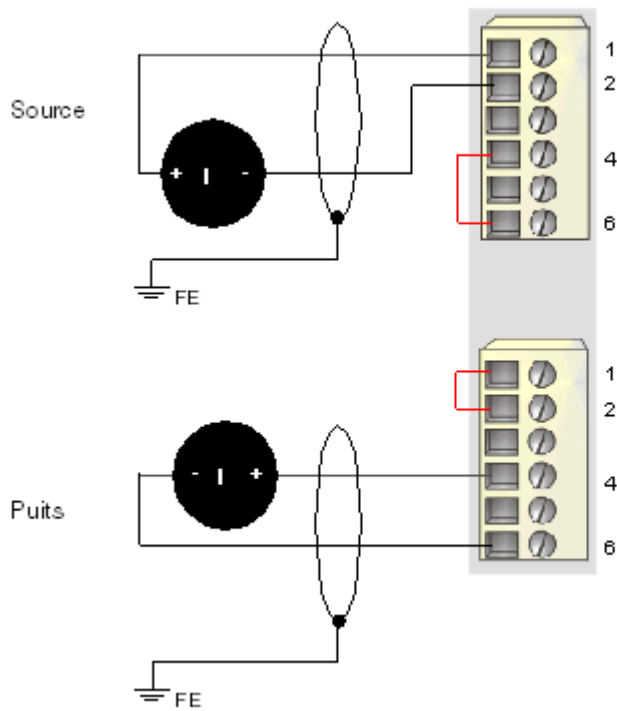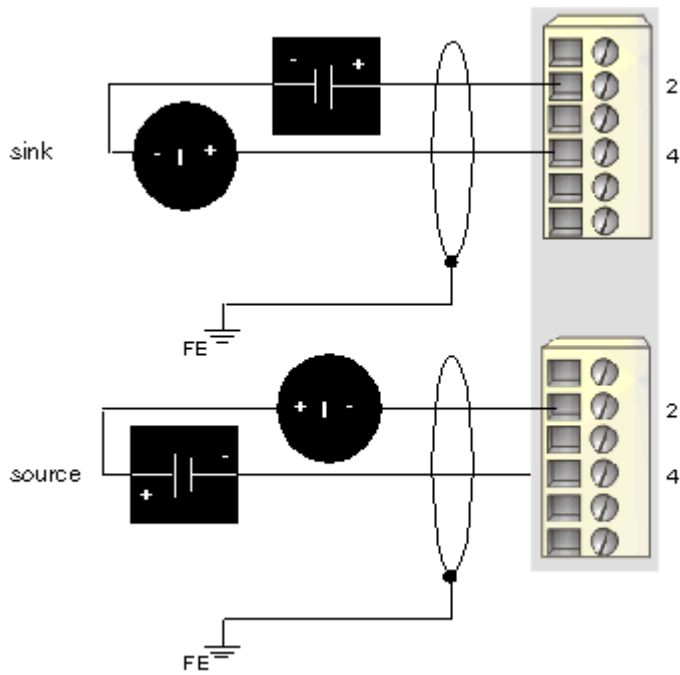|	
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California Proposition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

Dimensions Drawings

Dimensions

Connections and Schema

Wiring Diagrams

Examples

2 non-isolated analog actuators, 24 VDC supplied by the PDM

Source

Puits

FE

2 isolated analog actuators, external 24 VDC power supply

sink

FE

source

FE

Pin	Top Connections	Bottom Connections
1	+24 VDC loop supply	+24 VDC loop supply

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Pin	Top Connections	Bottom Connections
2	output to actuator 1	output to actuator 2
3	no connection	no connection
4	output channel return	output channel return
5	no connection	no connection
6	loop power return (to the module)	loop power return (to the module)

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