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 >

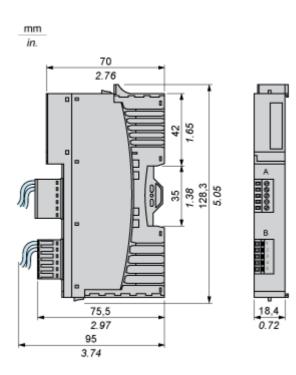
Well-being performance

| 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 | |

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Dimensions Drawings

Dimensions



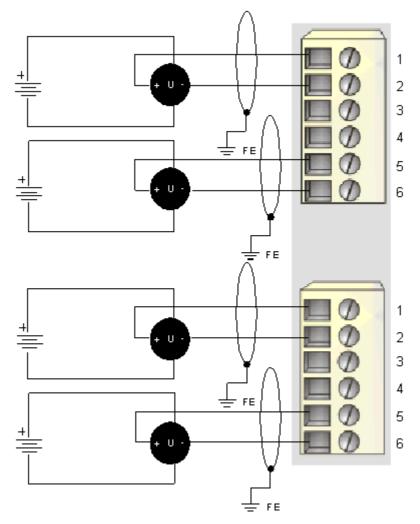
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Connections and Schema

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- |