

# Product data sheet

Specifications



## basic analog input kit, Modicon STB, 0 to 10V, 2I, 10 bits

STBAVI1255K

**Product availability: Non-Stock - Not normally stocked in distribution facility**

### Main

|                           |  |
|---------------------------|--|
| Range Of Product          | Modicon STB distributed I/O solution   |
| Product Or Component Type | Basic analog input kit   |
| Kit Composition           | STBAVI1255 module<br>STBXTS2100, 6-terminal spring clamp connector<br>STBXTS1100, 6-terminal screw type connector<br>STBXBA1000 base |
| Analogue Input Type       | Voltage 0...10 V   |
| Analogue Input Number     | 2  |
| Analogue Input Resolution | 10 bits  |
| 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                      | No for basic NIMs   |
| Data Format                                | EN 61131-2<br>IEC 61131-2   |
| Update Time                                | 10 ms   |
| 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                    | +/- 0.5 % 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                     | 2 input words   |
| Product Compatibility                      | Mounting base STBXBA1000<br>Power distribution module STBPDT3100/3105 |
| [Us] Rated Supply Voltage                  | 24 V DC   |
| Supply                                     | Power distribution module   |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                      |                                   |
|----------------------|-----------------------------------|
| Current Consumption  | 30 mA 5 V DC logic bus            |
| Marking              | CE                                |
| Overvoltage Category | II                                |
| Status Led           | 1 LED (Green) module status (RDY) |
| Net Weight           | 0.26 lb(US) (0.116 kg)            |

## Environment

|                                       |  |
|---------------------------------------|--|
| Product Certifications                | FM Class 1 Division 2<br>ATEX Cat 3G<br>UL<br>CSA<br>C-tick  |
| Pollution Degree                      | 2 IEC 60664-1  |
| Operating Altitude                    | <= 6561.68 ft (2000 m)   |
| Ip Degree Of Protection               | IP20 conforming to IEC 61131-2 class 1   |
| Ambient Air Temperature For Operation | 32...140 °F (0...60 °C)  |
| Ambient Air Temperature For Operation | 32...140 °F without derating   |
| Ambient Air Temperature For Storage   | -40...185 °F (-40...85 °C) without derating  |
| Ambient Air Temperature For Storage   | -40...185 °F without derating  |
| Relative Humidity                     | 95 % 140 °F (60 °C) without condensation   |
| Vibration Resistance                  | +/-0.35 mm 10...58 Hz<br>3 gn 58...150 Hz 35 x 7.5 mm symmetrical DIN rail<br>5 gn 58...150 Hz 35 x 15 mm symmetrical DIN rail |
| Shock Resistance                      | 30 gn 11 ms IEC 88 reference 2-27  |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1PC3218215  |
| Discount Schedule | PC32          |
| Gtin              | 3595863948912 |
| Returnability     | No            |
| Country Of Origin | ID            |

## Packing Units

|                              |                    |
|------------------------------|--------------------|
| Unit Type Of Package 1       | PCE                |
| Number Of Units In Package 1 | 1                  |
| Package 1 Height             | 0.98 in (2.5 cm)   |
| Package 1 Width              | 3.15 in (8.0 cm)   |
| Package 1 Length             | 5.12 in (13.0 cm)  |
| Package 1 Weight             | 4.76 oz (135.0 g)  |
| Unit Type Of Package 2       | S02                |
| Number Of Units In Package 2 | 28                 |
| Package 2 Height             | 5.91 in (15.0 cm)  |
| Package 2 Width              | 11.81 in (30.0 cm) |
| Package 2 Length             | 15.75 in (40.0 cm) |

|                              |                          |
|------------------------------|--------------------------|
| Package 2 Weight             | 9.66 lb(US) (4.38 kg)    |
| Unit Type Of Package 3       | PAL                      |
| Number Of Units In Package 3 | 448                      |
| Package 3 Height             | 23.62 in (60.0 cm)       |
| Package 3 Width              | 31.50 in (80.0 cm)       |
| Package 3 Length             | 176.38 in (448.0 cm)     |
| Package 3 Weight             | 133.34 lb(US) (60.48 kg) |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## 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<sub>2</sub> 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 >](#)

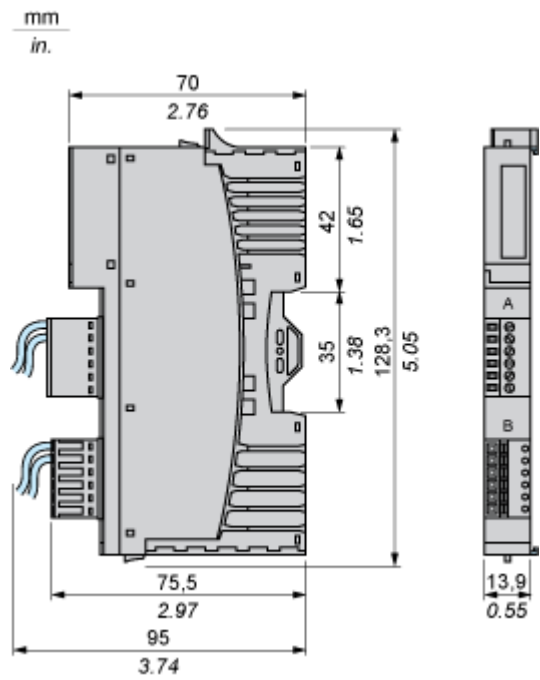
[Guide to assess a product's sustainability >](#)

## Well-being performance

|  |   |
|--|---|
|  Mercury Free               |   |
|  Rohs Exemption Information | <a href="#">Yes</a>   |
| Reach Regulation   | <a href="#">REACH Declaration</a>   |
| Eu Rohs Directive  | Pro-active compliance (Product out of EU RoHS legal scope)  |
| China Rohs Regulation  | <a href="#">China RoHS declaration</a>  |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

Dimensions Drawings

Dimensions

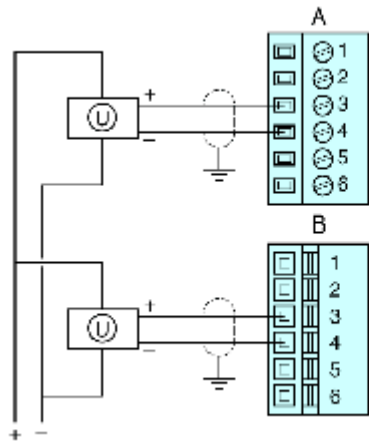


Connections and Schema

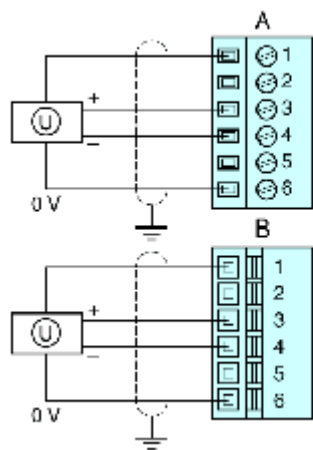
Wiring Diagrams

Examples

2 isolated analog sensors, external 24 VDC power supply



2 non-isolated analog sensors, 24 VDV supplied by the PDM



| Pin | Top Connections   | Bottom Connections  |
|-----|---|---|
| 1   | +24 VDC from field power bus for field device accessories | +24 VDC from field power bus for field device accessories |
| 2   | no connection   | no connection   |
| 3   | input from sensor 1                                       | input from sensor 2                                       |
| 4   | analog input return                                       | analog input return                                       |
| 5   | no connection   | no connection   |
| 6   | field power return (to the module)                        | field power return (to the module)                        |