

Product data sheet

Specifications



basic analog input kit, Modicon STB, 4 to 20mA, 2I, 10 bits

STBACI1225K

Product availability: Stock - 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 | STBXTS1100, 6-terminal screw type connector STBXBA1000 base STBXTS2100, 6-terminal spring clamp connector STBACI1225 module |
| Analogue input type | Current 4...20 mA |
| Analogue input number | 2 |
| Analogue input resolution | 10 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 | No for basic NIMs |
| Data format | EN 61131-2 IEC 61131-2 |
| Update time | 10 ms |
| Integral linearity | +/- 0.2 %FS |
| Differential linearity | Monotonic |
| Input impedance | <= 300 Ohm |
| Maximum supply current for sensors | 100 mA per input channels |
| 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 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 |

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

| | |
|----------------------|-----------------------------------|
| Marking | CE |
| Overvoltage category | II |
| Status LED | 1 LED (Green) module status (RDY) |
| Depth | 2.8 in (70 mm) |
| Height | 0.5 in (13.9 mm) |
| Width | 5.05 in (128.3 mm) |

Environment

| | |
|---------------------------------------|--|
| Product Certifications | C-tick UL CSA FM Class 1 Division 2 ATEX Cat 3G |
| 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 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 |

Ordering and shipping details

| | |
|-------------------|---------------|
| Category | US1PC3218215 |
| Discount Schedule | PC32 |
| GTIN | 3595863948387 |
| Returnability | Yes |
| Country of origin | ID |

Packing Units

| | |
|------------------------------|--------------------|
| Unit Type of Package 1 | PCE |
| Nbr. of units in pkg. | 1 |
| Package 1 Height | 1.10 in (2.79 cm) |
| Package 1 Width | 3.20 in (8.13 cm) |
| Package 1 Length | 5.20 in (13.21 cm) |
| Package weight(Lbs) | 4.9 oz (140 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 28 |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 Width | 11.81 in (30 cm) |

| | |
|-------------------------------------|----------------------------|
| Package 2 Length | 15.75 in (40 cm) |
| Package 2 Weight | 9.396 lb(US) (4.262 kg) |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 448 |
| Package 3 Height | 29.53 in (75.0 cm) |
| Package 3 Width | 15.75 in (40.0 cm) |
| Package 3 Length | 31.50 in (80.0 cm) |
| Package 3 Weight | 189.439 lb(US) (85.928 kg) |

Contractual warranty

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



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better

|  Materials and Substances | |
|---|--|
| Packaging made with recycled cardboard | No |
| Packaging without single use plastic | No |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| SCIP Number | 6830dd70-e4bc-47df-85c7-e41f888576f4 |
| REACH Regulation | REACH Declaration |
| 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 |

Use Again

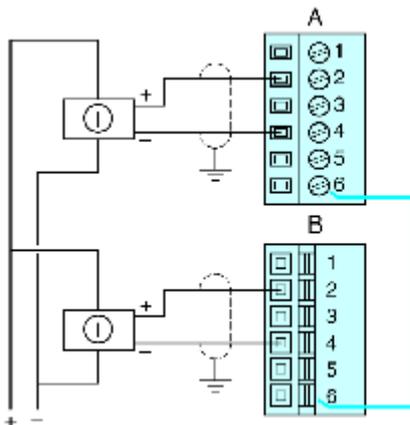
|  Repack and remanufacture | |
|---|--|
| Take-back | No |
| WEEE |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Connections and Schema

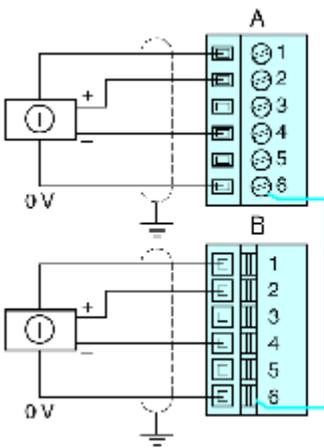
Wiring Diagrams

Examples

2 isolated analog sensors, external 24 VDC power supply



2 non-isolated analog sensors, 24 VDC 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 | input from sensor 1 | input from sensor 2 |
| 3 | no connection | no connection |
| 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) |