BAS-3018BC
BAS-3024BC

8-ch UI BACnet MS/TP Remote I/O Module

4-ch UI, 4-ch AO, 4-ch DO BACnet MS/TP Remote I/O Module

Features

- 24 V_{DC} or 24 V_{AC} input
- 3000 V_{DC} isolation protection
- Universal input supports 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA, RTD, Thermistor (3K, 10K), and digital input (Dry contact)
- Analog output supports 0 ~ 10 V, 0 ~ 20 mA, and 4 ~ 20 mA (BAS-3024BC only)
- Supports PWM output (BAS-3024BC only)
- BACnet MS/TP Server
- Supports Master and Slave mode

BAS-3018BC   BAS-3024BC

RoHS COMPLIANT 2002/95/EC   CE FCC

Introduction

BAS-3018BC/BAS-3024BC can serve as BACnet MS/TP remote I/O modules through an RS-485 network to be integrated with worldclass BACnet DDC Controller such as Johnson Controls, Honeywell etc.

Specifications

General

- **Dimensions (W x H x D)** 120 x 120 x 44 mm (4.72" x 4.72" x 1.73")
- **Enclosure** ABS + PC
- **Power Input** 24 V_{DC}/24 V_{AC}
- **Power Consumption** 3 W @ 24 V_{DC} (BAS-3018BC)/ 4 W @ 24 V_{DC} (BAS-3024)
- **Watchdog Timer** Yes
- **Communication** RS-485

Universal Input

- **Channels** 8 (BAS-3018BC)/4 (BAS-3024BC)
- **Resolution** 16-bit
- **Sample Rate** 10 Hz (Total)
- **Accuracy** ±0.1% of FSR (Voltage, Current)
- **Type and Range** Analog Input: 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA, Pt-100/1000, RTD, Thermistor (3 k, 10 k) Digital Input Logic High: Close (Dry Contact) Logic Low: Open
- **Over Voltage Protection** ±35 V

Analog Output (BAS-3024BC only)

- **Channels** 4
- **Resolution** 12-bit
- **Accuracy** ± 0.1% of FSR
- **Range** 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA

Digital Output (BAS-3024BC only)

- **Channels** 4 (Source Type)
- **Vcc** 10 ~ 35 V_{DC}, Current: 1 A (per channel)
- **PWM Output (2 channels)**
  Minimum Period   1 second (for PWM output)
  Minimum Pulse Width   0.1 second (for PWM output)

Protection

- **Isolation Voltage** 3,000 V_{DC}

BACnet Profile

- **Protocol** BACnet MS/TP Server
- **Mode** Master and Slave
- **Device Profile** BACnet Smart Sensor (B-SS)
- **Interoperability** DS-RP-B,DS-WP-B,DS-RPM-B,DS-WPM-B Building Blocks
- **Objects** AI, AO, BO and Device

Environment

- **Operating Temperature** -10 ~ 60°C (14 ~ 140°F)
- **Storage Temperature** -20 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity** 20 ~ 95% (Non-condensing)
- **Storage Humidity** 0 ~ 95% (Non-condensing)

Ordering Information

- **BAS-3018BC-AE** 8-ch UI BACnet MS/TP Remote I/O Module
- **BAS-3024BC-AE** 4-ch UI, 4-ch AO, 4-ch DO BACnet MS/TP Remote I/O Module