

# 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

**NEW**



BAS-3018BC



BAS-3024BC



### Features

- 24 V<sub>DC</sub> or 24 V<sub>AC</sub> input
- 3000 V<sub>DC</sub> isolation protection (DO)
- 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-Slave mode

### 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

- **Dimension (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<sub>DC</sub>/24 V<sub>AC</sub>
- **Power Consumption** 3 W @ 24 V<sub>DC</sub> (BAS-3018BC)/  
4 W @ 24 V<sub>DC</sub> (BAS-3024BC)
- **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<sub>DC</sub>, Current: 1 A (per channel)
- **PWM Output (2 ch)** PWM period: 2ms~3600sec  
Minimum duty on (pulse width): 0.2ms  
PWM Rising/ Falling time: 170/ 160 us
- **Isolation Voltage** 3,000 VDC (DO)

#### BACNet Profile

- **Protocol** BACNet MS/TP Server
- **Mode** Master-Slave
- **Device Profile** BACnet Smart Sensor (B-SS)
- **Interoperability** DS-RP-B, DS-WP-B, DS-RPM-B, DS-WPM-B, DM-DDB-B, DM-DOB-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