

BAPI WIRELESS SYSTEM OUTPUT MODULES

BA/COM, BA/ROM, BA/RyOM, BA/RyOL, BA/SOM, BA/VOM

DESCRIPTION

The **BAPI BA/ROM, VOM, COM, and RYOM wireless system output modules** are specifically designed to connect to any BA/RCV receiver and communicate over an RS485 communication trunk to generate standard output signals for any BAS system. A total of 127 modules may be interspersed on the RS485 trunk. Each will output a signal representative of its assigned remotely located wireless transmitter. Each module may be powered from the receiver power bus, or individually, based on overall system power requirements.

The **BAPI BA/ROM** thermistor simulation output module converts a wireless transmitter temperature signal according to a standard thermistor curve. The three standard curves are 10 KΩ Type 3, a 10 KΩ Type 2, with a resistance temperature response of 35° to 120°F (1° to 50°C) and a 20 K thermistor curve with response of 50° to 120°F (12° to 50°C).

The **BAPI BA/VOM** voltage output module converts a wireless transmitter temperature signal to a standard voltage signal. The two standard voltage outputs are 0-5 VDC and 0-10 VDC, with voltage temperature responses based on individual models.

The **BAPI BA/COM** current output module converts a wireless transmitter temperature signal to a standard 4-20 mA current signal. The 4-20 mA current is typical of a loop powered (9-36 VDC) device with current temperature responses based on individual models.

The **BAPI BA/RyOM** digital output module converts the pushbutton on a wireless room temperature transmitter to a solid-state relay momentary closure for AC or DC voltages (5 second momentary actuation). NO or NC solid-state contacts are available, based on individual models.

The **BAPI BA/RyOL** digital output module converts the BA/WDI digital input transmitter signal to a latching relay output. NO or NC fail safe contacts are available, based on individual models.

The **BAPI BA/SOM** setpoint output module converts the setpoint data received to a resistance or voltage output.



BA/SOM-16-EZ BA/VOM-05-C-EZ BA/ROM-102-EZ



FEATURES

- Provide BAS point wiring
- 127 modules per system
- Thermistor simulation for temperature
- 0-10 VDC, 0-5 VDC, or 4-20 mA signals
- Solid-state contacts
- Built-in fail-safe on signal loss
- Snap-track and DIN rail mounting

SPECIFICATIONS

DEVICE OPERATION

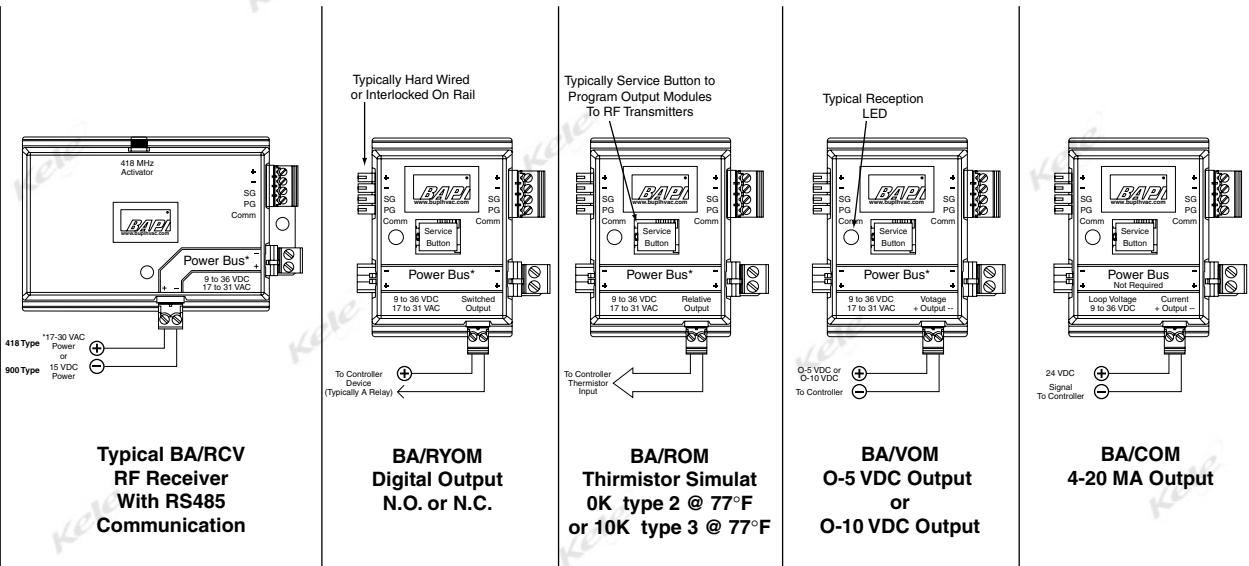
Supply Voltage	Most modules powered from BA/RCV receiver
VOM, ROM	Powered from receiver bus
RYOx, SOM	Powered from receiver bus
COM	9-36 VDC from current loop
Output	RS485 bus to a maximum of 127 "Output Modules"
BA/VOM-xx	0-5V or 0-10V @ 10KO
BA/COM-xx	4-20mA, 750Ω @ 24VDC
BA/SOM-xx	0-5V or 0-10V @ 10KO, or Resistance 0-75K
BA/ROM-xxx	Thermistor (10K-2, 10K-3, 20K)
BA/RyOM	Momentary, Triac, 40V AC/DC, 150mA, 1μA leakage
BA/RyOL	Latching, Triac, 40V AC/DC, 150mA, 1μA leakage
Indication	LED blinks on each reception
A/D resolution	10 bit, 1024 counts"
Mounting	DIN rail or 2 screws to back plane
Output modules	plug into the right side of receiver and/or other output modules
Wiring	2 field terminals, 22-16 AWG
RS485	Comm. trunk 6 terminals or plug
Operating Temperature	32 to 140°F (0 to 60°C)
Operating Humidity	5-95% RH non-condensing
Construction	ABS Plastic, UL94V-0
Enclosure Rating	Indoor, NEMA 1
Dimensions	2.75"H x 2.34"W x 1.2"D (7.0 x 5.9 x 3.0 cm)
Weight	0.3 lb (0.14 Kg)
Warranty	2 year

RADIO/RADIO RECEIVER INTERFACE

Update Interval	Updates on each reception
Lost Comm. Fail Safe	If no reception >15 minutes modules fail safe
BA/VOM-xx	°F Fails low and %RH Fails high
BA/COM-xx	°F Fails low and %RH Fails high
BA/SOM-xx	°F Fails low
BA/ROM-xx	°F Fails low
BA/RyOM	Fails to the normal condition per order (NO or NC)
BA/RyOL	Fails to the normal condition per order (NO or NC)
Programming	Push button on "Transmitter/Output Module" simultaneously
Approvals	RoHS

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WIRING



*The power bus maybe split when needed and is required when module current draw exceeds the system power supply. If the power bus is split re-established with an indendently power source. Do not parallel power sources.

ORDERING INFORMATION

MODEL

BA/COM-C-EZ
BA/COM-E-EZ
BA/COM-H-EZ
BA/COM-KK-EZ
BA/COM-M-EZ
BA/COM-AO-EZ
BA/ROM-102-EZ
BA/ROM-103-EZ
BA/ROM-20-EZ
BA/RyOM-NC-EZ
BA/RyOM-NO-EZ
BA/SOM-10-EZ
BA/SOM-60-EZ
BA/VOM-10-C-EZ
BA/VOM-10-E-EZ
BA/VOM-10-H-EZ
BA/VOM-10-KK-EZ
BA/VOM-10-M-EZ
BA/VOM-10-AO-EZ
BA/RyOL-NC-EZ
BA/RyOL-NO-EZ

DESCRIPTION

Temperature current output module, 4-20 mA = 50°F to 90°F
Temperature current output module, 4-20 mA = 60°F to 80°F
Temperature current output module, 4-20 mA = -20°F to 120°F
Temperature output module, 4-20mA = 32°F to 185°F
Humidity current output module, 4-20 mA = 0 to 100% RH
Full scale temperature output module, 4-20mA = 32°F to 185°F = BA/WAI full scale input
Temperature thermistor simulation output module, 10K type 24 (35°F to 120°F)
Temperature thermistor simulation output module, 10K type 3 (32°F to 120°F)
Thermistor simulation output module, 20K (HNWL) 53°F to 120°F
Relay output momentary, normally open output (Used with push button override)
Relay output momentary, normally closed output (used with push button override)
Setpoint full scale output module, 0 to 10 VDC output
Setpoint full scale output module, 0 to 10K Ω output
Voltage output module, 0-10 VDC = 50°F to 90°F
Voltage output module, 0-10 VDC = 60°F to 80°F
Voltage output module, 0-10 VDC = -20°F to 120°F
Temperature voltage output module, 0-10VDC = 32°F to 185°F
Voltage output module, 0-10 VDC = 0 to 100% RH
Full scale temperature voltage output module, 0-10VDC = 32°F to 185°F
Relay output latching, normally closed fail safe (used with BA/WDI to follow DI input)
Relay output latching, normally open fail safe (used with BA/WDI to follow DI input)

RELATED PRODUCTS

BA/VC350A-15 Power supply 24 VAC to 15 VDC, 350 mA
BA/AOM-CONN Pluggable terminal block kit
DCPA-1.2 Power supply, 120 VAC In to 24 VAC/24 VDC Out
691-K0A Control transformer, 120:24 VAC, 40 VA, Class 2
DCP-1.5-W Power supply, 24 VAC IN to 24 VDC OUT