



# HUMIDITY

## 3% ROOM, DUCT, AND OSA HUMIDITY TRANSMITTERS BA/H300 SERIES

### DESCRIPTION

The **BAPI Model BA/H Series 3% accuracy humidity transmitters** are designed specifically for HVAC/BAS applications. The room transmitters use Delta or BAPI-Stat II enclosures with optional communication jacks. All duct and OSA units come in weatherproof enclosures selectable for NEMA 3R or IP66 applications. All **BA/H** transmitters have optional temperature sensors or temperature transmitters. Transmitter outputs include 4-20mA, 0-5V and 0-10V with replaceable sensors.

### FEATURES

- Popular room housing
- Accuracies of 3%
- Three-year warranty
- Duct and OSA twist-off NEMA 4 housing
- 24 VDC or 24 VAC power (field-selectable)
- 4-20 mA, 0-10V, or 0-5V signal (field-selectable)
- Field calibratable
- Optional temperature sensor



Delta-Style  
Enclosure



BAPIBox 2  
Enclosure



NEMA 4 (BB)  
Duct Unit



Weatherproof (WP)  
Duct Unit



### SPECIFICATIONS

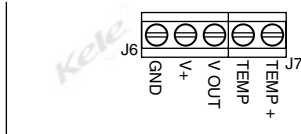
Accuracy	3%, from 20% to 95% RH
Supply Voltage	15-28 VAC/VDC
Signal Output	4-20 mA @ 700Ω, 0-5/10 VDC @ 10kΩ min
Sensing Technology	Resistive with ceramic substrate
Sensor Protection	
Room	Room Gore-Tex®
Duct/OSA	80 micron stainless steel sintered filter
Operating Humidity	0-100%, non-condensing
Operating Temperature	
Room	32° to 122°F (0° to 50°C)
Duct/OSA	-40° to 158°F (-40° to 70°C)
Enclosure	
Room	ABS Plastic, UL94V-0

Duct/OSA	
BAPIBox (BB)	IP66 rated UV resistant polycarbonate
BAPIBox II (BB2)	IP66 rated, UV resistant polycarbonate
WP	Weather Proof, NEMA 3R, Cast aluminum
Wiring Terminations	Four wire, 16 to 26 AWG terminals
Weight	
Room	0.25 lb (0.11 Kg)
Duct/OSA	
BB/BB2	1.0 lb (0.45 Kg)
WP	1.3 lb (0.55 Kg)
Approvals	CE, RoHS
Warranty	2 years

## ROOM, DUCT, AND OSA 3% HUMIDITY TRANSMITTERS BA/H300 SERIES



### WIRING



Room Humidity Circuit Board

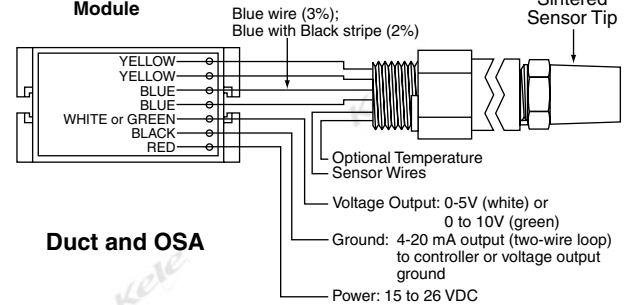
#### 4 TO 20 mA TERMINATION

Terminal Legend	Function
GND .....	4 to 20 mA signal (to analog input of controller)
V+ .....	+15 to +26 VDC
TEMP .....	Optional temperature sensor
TEMP .....	Optional temperature sensor

#### 0 TO 5 VDC TERMINATION

Terminal Legend	Function
GND .....	To controller ground (GND or common)
V+ .....	+15 to +26 VAC/VDC
V OUT .....	0 to 5 VDC or 0 to 10V signal (to analog input of controller)
TEMP .....	Optional temperature sensor
TEMP .....	Optional temperature sensor

#### Humidity Transmitter Module



Duct and OSA

### ORDERING INFORMATION

BAPI ROOM HUMIDITY TRANSMITTER	
MODEL	DESCRIPTION
BA/H300R	3% Humidity Transmitter, 4-20 mA output, Delta enclosure
BA/H310R	3% Humidity Transmitter, 0-10 VDC output, Delta Enclosure
DISPLAY OPTION	
D	LCD Display

Example: BA/H300RD 3% Room humidity transmitter, 4-20 mA output, with LCD display

BAPI DUCT HUMIDITY SENSOR	
MODEL	DESCRIPTION
BA/H300	3% Humidity w/ Interchangeable Output of 0-5 VDC or 4-20 mA output
BA/H310	3% Humidity, 0-10 VDC output
BA/H312	3% Humidity, 2-10 VDC output
ENCLOSURE OPTION	
DBB	BapiBox Enclosure, IP66 Rated, UV Resistant Polycarbonate
DBB2	BapiBox2 Enclosure, IP66 Rated, UV Resistant Polycarbonate
DWP	Weatherproof Enclosure, NEMA 3R Rated Metal Enclosure

Example: BA/H300DBB2 3% Duct mount humidity transmitter, 0-10 VDC output, BB2 enclosure

BAPI OSA HUMIDITY SENSOR	
MODEL	DESCRIPTION
BA/H300	3% Humidity w/ Interchangeable Output of 0-5 VDC or 4-20 mA output
BA/H310	3% Humidity, 0-10 VDC output
BA/H312	3% Humidity, 2-10 VDC output
ENCLOSURE OPTION	
OBB	BapiBox Enclosure, IP66 Rated, UV Resistant Polycarbonate
OBB2	BapiBox2 Enclosure, IP66 Rated, UV Resistant Polycarbonate
OWP	Weatherproof Enclosure, NEMA 3R Rated Metal Enclosure

Example: BA/H300OWP 3% OSA mount humidity transmitter, 4-20 mA output, weather proof housing

### RELATED PRODUCTS

BA/ADP-525-7-CPW	Copla white 7" x 5.25" adaptor plate
BA/FOAMBACK	White foam back insulator
UR	Moisture-resistant three-wire butt splice
DCPA-1.2	Power supply, 120 VAC IN to 24 VAC/24 VDC OUT
DCP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT
BA/ADP-525-7-OFW	Off white 7" x 5.25" adaptor plate
BA/ADP-525-7-WMW	Warm white 7" x 5.25" adaptor plate