

NS Series Network Sensors

Description

The NS Series Network Sensor offering includes NS Series Network Zone Sensors and NS Series Network Discharge Air Sensors. The NS Series Network Sensors are designed to function directly with Metasys® system Field Equipment Controllers (FECs), Input/Output Modules (IOMs), Variable Air Volume (VAV) Modular Assembly (VMA16) Controllers, and Facility Explorer FX-PC Series Programmable Controllers (FX-PCGs, FX-PCVs, and FX-PCXs).

The majority of NS Series Network Zone Sensors monitor room temperature; however, options are available to also monitor zone humidity, carbon dioxide (CO₂), local temperature setpoint adjustments, and other variables. This data is transmitted to a controller on the Sensor Actuator (SA) Bus.

The NS Series Network Zone Sensors include models with a temperature setpoint dial and Liquid Crystal Display (LCD) that allows occupants to view the zone temperature, Relative Humidity (RH), and view and adjust the zone temperature setpoint. Some temperature and humidity models include a push button to toggle between temperature and RH on the display. These models also have the capability to set the desired default display to either temperature or RH.

A fan mode push button is included to set the desired fan speed (AUTO-OFF-low-medium-high). An occupancy override function allows the user to signal the controller that the zone is occupied to override the scheduled mode. Some models have DIP switches to set a unique address for applications that require multiple sensors.

For communication wiring flexibility, the wires connecting the network zone sensor to a controller can be terminated using a modular jack or screw terminals.

Each network sensor includes an SA Bus access port to allow accessories to access the SA Bus. This plug allows accessories to service or commission the connected controller or gain access to any other controller on the same Field Controller (FC) Bus.

The NS Series Network Zone Sensor offering includes models that can be surface mounted, vertical wallbox mounted, or flush mounted to meet the requirements of the specific application.

The NS Series Network Discharge Air Sensors monitor the duct temperature, typically at the discharge of the VAV box, and transmit this data to a local controller on the SA Bus using the 10 ft (305 cm) wiring lead included with the unit. The 10 ft (305 cm) wiring lead consists of four 22 AWG (0.6 mm) trade size color-coded wires encased in a plenum-rated jacket. Each of the wires is stripped and tinned for easy connection to the SA Bus screw terminal block.

The NS Series Network Discharge Air Sensors are available with either a 4 or 8 in. (102 or 203 mm) temperature probe. All models include DIP switches for applications requiring multiple discharge air sensors, each with a unique DIP switch address.



NS Series Network Sensors

Features

- BACnet® Master-Slave/Token-Passing (MS/TP) protocol communication — provides compatibility with Metasys system field controllers and Facility Explorer programmable controllers in a proven communication network
- backlit Liquid Crystal Display (LCD) available on some models provides real-time status of the environment with backlighting activated during user interaction
- simple temperature setpoint adjustment available on some models enables you to change the setpoint with the turn of a dial
- temporary occupancy available on some models provides a timed override command, which temporarily initiates an alternate mode
- field selectable default display setting on some models allows you to toggle between temperature and RH on the display, and set the desired default for continuous viewing
- Fahrenheit/Celsius (F/C) button available on some models toggles the display temperature between degrees Celsius and degrees Fahrenheit

Repair Information

If the NS Series Network Zone Sensor or the NS Series Network Discharge Air Sensor fails to operate within its specifications, replace the unit. For a replacement sensor, contact the nearest Johnson Controls® representative.



Selection Charts

Network Zone Sensor Ordering Information — Temperature Only Models

Product	Size	Vertical	Johnson		Temperature	Occupancy	F/C	Fan	Screw Ter-	Address	VAV
Code Number	(mm), Height x Width	Wallbox-	Controls Logo		Adjustment: Setpoint (Set) or Warmer/ Cooler Dial (W/C)	Override	Scale Toggle	Control	minals (ST) or Modular Jack (MJ)	Switches	Balancing Feature
NS-ATA7001-0	80 x 80	SM	Yes	Yes	Set	Yes	No	No	MJ	No	No
NS-ATA7001-0	80 x 80	SM	Yes	Yes	Set	Yes	No	No	ST	No	No
NS-ATA7002-0	80 x 80	SM	Yes	Yes	Set	Yes	No	No	ST	Yes	No
NS-ATB7001-0	80 x 80	SM	Yes	Yes	Set	Yes	Yes	No	MJ	No	No
NS-ATB7002-0	80 x 80	SM	Yes	Yes	Set	Yes	Yes	No	ST	No	No
NS-ATB7003-0	80 x 80	SM	Yes	Yes	Set	Yes	Yes	No	ST	Yes	No
NS-ATC7001-0	80 x 80	SM	Yes	Yes	Set	Yes	No	Yes	MJ	No	No
NS-ATC7002-0	80 x 80	SM	Yes	Yes	Set	Yes	No	Yes	ST	No	No
NS-ATD7001-0	80 x 80	SM	Yes	Yes	Set	Yes	Yes	Yes	MJ	No	No
NS-ATD7002-0	80 x 80	SM	Yes	Yes	Set	Yes	Yes	Yes	ST	No	No
NS-ATF7001-0	80 x 80	SM	Yes	Yes	W/C	Yes	Yes	No	MJ	No	No
NS-ATF7002-0	80 x 80	SM	Yes	Yes	W/C	Yes	Yes	No	ST	No	No
NS-ATN7001-0	80 x 80	SM	Yes	No	N/A	No	No	No	MJ	No	No
NS-ATN7001-2	80 x 80	SM	No	No	N/A	No	No	No	MJ	No	No
NS-ATN7003-0	80 x 80	SM	Yes	No	N/A	No	No	No	ST	Yes	No
NS-ATN7003-2	80 x 80	SM	No	No	N/A	No	No	No	ST	Yes	No
NS-ATP7001-0	80 x 80	SM	Yes	No	W/C	Yes	No	No	MJ	No	No
NS-ATP7001-2	80 x 80	SM	No	No	W/C	Yes	No	No	MJ	No	No
NS-ATP7002-0	80 x 80	SM	Yes	No	W/C	Yes	No	No	ST	No	No
NS-ATP7003-0	80 x 80	SM	Yes	No	W/C	Yes	No	No	ST	Yes	No
NS-ATP7003-2	80 x 80	SM	No	No	W/C	Yes	No	No	ST	Yes	No
NS-ATV7001-0	80 x 80	SM	Yes	Yes	Set	Yes	Yes	No ¹	MJ	No	Yes
NS-ATV7002-0	80 x 80	SM	Yes	Yes	Set	Yes	Yes	No ¹	ST	No	Yes
NS-BTB7001-0	120 x 80	WB, SM	Yes	Yes	Set	Yes	Yes	No	MJ	No	No
NS-BTB7001-2	120 x 80	WB, SM	No	Yes	Set	Yes	Yes	No	MJ	No	No
NS-BTB7002-0	120 x 80	WB, SM	Yes	Yes	Set	Yes	Yes	No	ST	No	No
NS-BTB7003-0	120 x 80	WB, SM	Yes	Yes	Set	Yes	Yes	No	ST	Yes	No
NS-BTF7001-0	120 x 80	WB, SM	Yes	Yes	W/C	Yes	Yes	No	MJ	No	No
NS-BTF7002-0	120 x 80	WB, SM	Yes	Yes	W/C	Yes	Yes	No	ST	No	No
NS-BTN7001-0	120 x 80	WB, SM	Yes	No	N/A	No	No	No	MJ	No	No
NS-BTN7001-2	120 x 80	WB, SM	No	No	N/A	No	No	No	MJ	No	No
NS-BTN7003-0	120 x 80	WB, SM	Yes	No	N/A	No	No	No	ST	Yes	No
NS-BTP7001-0	120 x 80	WB, SM	Yes	No	W/C	Yes	No	No	MJ	No	No
NS-BTP7001-2	120 x 80	WB, SM	No	No	W/C	Yes	No	No	MJ	No	No
NS-BTP7002-0	120 x 80	WB, SM	Yes	No	W/C	Yes	No	No	ST	No	No
NS-BTP7002-2	120 x 80	WB, SM	No	No	W/C	Yes	No	No	ST	No	No
NS-BTP7003-0	120 x 80	WB, SM	Yes	No	W/C	Yes	No	No No	ST	Yes	No
NS-BTV7001-0 NS-BTV7002-0	120 x 80 120 x 80	WB, SM	Yes	Yes	Set	Yes	Yes	No ¹	MJ	No	Yes
NO-DIV/UU2-U	120 X 80	WB, SM	Yes	Yes	ઝ હા	Yes	Yes	INO.	ST	No	Yes

^{1.} In the VAV balancing models, the fan control button is replaced by a light bulb button used in the VAV balancing process.



Network Zone Sensor Ordering Information — Temperature and Humidity Models without RH Display

Product Code Number	Size (mm), Height x Width	Wallbox-	LCD Display, RH Display	Humidity Element Accuracy	Temperature Adjustment: Setpoint (Set) or Warmer/ Cooler Dial (W/C)	Occupancy Override	F/C Scale Toggle	Screw Terminals (ST) or Modular Jack (MJ)	Address Switches
NS-AHA7001-0	80 x 80	SM	Yes, No	3%	Set	Yes	No	MJ	No
NS-AHA7002-0	80 x 80	SM	Yes, No	3%	Set	Yes	No	ST	No
NS-AHB7001-0	80 x 80	SM	Yes, No	3%	Set	Yes	Yes	MJ	No
NS-AHB7002-0	80 x 80	SM	Yes, No	3%	Set	Yes	Yes	ST	No
NS-AHB7003-0	80 x 80	SM	Yes, No	3%	Set	Yes	Yes	ST	Yes
NS-AHN7001-0	80 x 80	SM	None	3%	N/A	No	No	MJ	No
NS-AHP7001-0	80 x 80	SM	None	3%	W/C	Yes	No	MJ	No
NS-AHN7001-2	80 x 80	SM	None	3%	N/A	No	No	MJ	No
NS-APA7001-0	80 x 80	SM	Yes, No	2%	Set	Yes	No	MJ	No
NS-APA7002-0	80 x 80	SM	Yes, No	2%	Set	Yes	No	ST	No
NS-APB7001-0	80 x 80	SM	Yes, No	2%	Set	Yes	Yes	MJ	No
NS-APB7002-0	80 x 80	SM	Yes, No	2%	Set	Yes	Yes	ST	No
NS-APB7003-0	80 x 80	SM	Yes, No	2%	Set	Yes	Yes	ST	Yes
NS-BHB7001-0	120 x 80	WB, SM	Yes, No	3%	Set	Yes	Yes	MJ	No
NS-BHB7002-0	120 x 80	WB, SM	Yes, No	3%	Set	Yes	Yes	ST	No
NS-BHB7003-0	120 x 80	WB, SM	Yes, No	3%	Set	Yes	Yes	ST	Yes
NS-BHN7001-0	120 x 80	WB, SM	None	3%	N/A	No	No	MJ	No
NS-BHP7001-0	120 x 80	WB, SM	None	3%	W/C	Yes	No	MJ	No
NS-BPB7001-0	120 x 80	WB, SM	Yes, No	2%	Set	Yes	Yes	MJ	No
NS-BPB7002-0	120 x 80	WB, SM	Yes, No	2%	Set	Yes	Yes	ST	No
NS-BPB7003-0	120 x 80	WB, SM	Yes, No	2%	Set	Yes	Yes	ST	Yes

Network Zone Sensor Ordering Information — Temperature and Humidity Models with Temperature or RH Display (Field Selectable Default Display)

Product Code Number	Size (mm), Height x Width	Mounted (WB)	LCD Display, RH Display	Humidity Element Accuracy		Occupancy Override	F/C Scale Toggle	Screw Terminals (ST) or Modular Jack (MJ)	Address Switches
NS-AHR7101-0	80 x 80	SM	Yes, Yes	3%	Set	Yes	Yes	MJ	No
NS-AHR7102-0	80 x 80	SM	Yes, Yes	3%	Set	Yes	Yes	ST	No
NS-AHR7103-0	80 x 80	SM	Yes, Yes	3%	Set	Yes	Yes	ST	Yes
NS-APR7101-0	80 x 80	SM	Yes, Yes	2%	Set	Yes	Yes	MJ	No
NS-APR7102-0	80 x 80	SM	Yes, Yes	2%	Set	Yes	Yes	ST	No
NS-BHR7101-0	120 x 80	WB, SM	Yes, Yes	3%	Set	Yes	Yes	MJ	No
NS-BHR7103-0	120 x 80	WB, SM	Yes, Yes	3%	Set	Yes	Yes	ST	Yes

Network Zone Sensor Ordering Information — CO₂ Models

Product Code Number	Size (mm), Height x Width	Vertical Wallbox- Mounted (WB), or Surface-Mounted (SM)	LCD Display	CO ₂ Measurement Range		Screw Terminals (ST), or Modular Jack (MJ)	Sensor Addressing
NS-BCN7004-0	120 x 80	WB, SM	No	0 to 2,000 ppm	Yes	ST, MJ	DIP Switch (212 to 219)
NS-BCN7004-2	120 x 80	WB, SM	No	0 to 2,000 ppm	No	ST, MJ	DIP Switch (212 to 219)

Network Zone Sensor Ordering Information — Flush-Mount Temperature Only Model

Code Number	Faceplate Dimensions, Height x Width	Mounting		Temperature Measurement Range	 Sensor Addressing
	4-1/2 in. x 2-3/4 in. (114 mm x 70 mm)	Flush-Mount	-	32.0°F/0.0°C to 104.0°F/40.0°C	DIP Switch (200 to 203)



Network Discharge Air Sensor Ordering Information

Product Code Number	Dimensions, Height x Width x Depth		10 ft (305 cm) Wiring Lead Included	Terminations	Sensor Addressing
NS-DTN7043-0	3 in. x 3 in. x 2 in. (76 mm x 76 mm x 51 mm)	4 in. (102 mm)	Yes		DIP Switch (204 to 211)
NS-DTN7083-0	3 in. x 3 in. x 2 in. (76 mm x 76 mm x 51 mm)	8 in. (203 mm)	Yes		DIP Switch (204 to 211)

Technical Specifications

	NO Series Network Z	one Sensors — Temperature Only Models and Temperature and Humidity Models				
Supply Voltage		9.8 to 16.5 VDC; 15 VDC Nominal (From SA Bus)				
Current Consump	tion	Temperature Only Models with LCD Display: 21 mA Maximum (Non-transmitting)				
		Temperature Only Models without LCD Display: 13 mA Maximum (Non-transmitting)				
		Temperature and Humidity Models with LCD Display: 25 mA Maximum (Non-transmitting)				
		Temperature and Humidity Models without LCD Display: 17 mA Maximum (Non-transmitting)				
Terminations		Modular Jack or Screw Terminal Block				
Sensor Addressin	ng	NS-AHx7003-0, NS-APB7003-0, NS-ATx7003-0, NS-BHx7003-0, NS-BPB7003-0, NS-BTB7003-0, NS-BTN7003-0 and NS-BTP7003-0 Models: DIP Switch Set from 200 to 203; Factory Set at 203				
		All Other Models: Fixed Address of 199				
Wire Size		Modular Jack Models: 24 or 26 AWG (0.5 or 0.4 mm Diameter) Recommended; Three Twisted Pair (Six Conductors)				
		Screw Terminal Block Models: 18 to 22 AWG (1.0 to 0.6 mm Diameter); 22 AWG (0.6 mm Diameter) Recommended				
Communication R	late	Auto-Detect: 9.6k, 19.2k, 38.4k, or 76.8k bps				
Mounting		Surface-Mounted: 80 x 80 mm				
		Surface-Mounted or Vertical Wallbox-Mounted: 120 x 80 mm				
Temperature Meas	surement Range	32.0°F/0.0°C to 104.0°F/40.0°C				
Humidity Measure	ement Range	Full Range: 0 to 100% RH				
		Calibrated Range: 10 to 90% RH				
Temperature Sens	sor Type	Local Platinum Resistance Temperature Detector (RTD)				
Humidity Sensor	Туре	Thin Film Capacitive Sensor				
Temperature Reso	olution (Models with	±0.5F°/±0.5C°				
Temperature Sens	sor Accuracy	±1.0F°/±0.6C°				
Humidity Element	Accuracy	NS-APx700x-0 and NS-BPB700x-0 Models: ±2% RH for 20 to 80% RH; ±4% RH for 10 to 20% and 80 to 90% RH				
		NS-AHx700x-0 and NS-BHx700x-0 Models: ±3% RH for 20 to 80% RH; ±6% RH for 10 to 20% and 80 to 90% RH				
Time Constant		10 Minutes Nominal at 10 fpm Airflow				
Default Temperatu	ure Setpoint	With LCD Display: 50.0°F/10.0°C to 86.0°F/30.0°C in 0.5° Increments				
Adjustment Range		Without LCD Display: ±5.0F°/±3.0C°				
Ambient Conditio	ns	Operating: 32 to 104°F (0 to 40°C); 10 to 90% RH, Noncondensing; 85°F (29°C) Maximum Dew Point				
		Storage with LCD Display: -4 to 140°F (-20 to 60°C); 5 to 95% RH, Noncondensing				
		Storage without LCD Display: -40 to 158°F (-40 to 70°C); 5 to 95% RH, Noncondensing				
Compliance	BACnet	BACnet Testing Laboratories™ (BTL) 135-2004 Listed BACnet Smart Sensor (B-SS)				
•	International	Note: Excludes the NS-ATV700x-0 and NS-BTV700x-0 models.				
	United States	UL Listed, File E107041, CCN PAZX, Under UL 916, Energy Management Equipment; FCC Compliant to CFR 47, Part 15, Subpart B, Class A				
C€	Canada	UL Listed, File E107041, CCN PAZX7, Under CAN/CSA C22.2 No. 205, Signal Equipment; Industry Canada, ICES-003				
	Europe	CE Mark – Johnson Controls, Inc., declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive 2004/108/EC.				
	Australia and New Zealand	C-Tick Mark, Australia/NZ Emissions Compliant				
Accessory (Order Separately)		NS-WALLPLATE-0: Adapts an 80 x 80 mm NS Series Network Zone Sensor to a Standard 80 x 120 mm Wallbox				
Shipping Weight		NS-Axx7xxx-0 Models: 0.20 lb (0.09 kg)				
Ompping Weight		NS-Bxx7xxx-0 Models: 0.25 lb (0.11 kg)				



		NS Series Network Zone Sensor — CO ₂ Models				
Supply Voltage		Non-isolated: 20 to 30 VAC (18 to 30 VDC), Class 2 or Safety Extra-Low Voltage (SELV)				
		Isolated: 9.8 to 16.5 VDC; 15 VDC Nominal (From SA Bus)				
Current Consump	tion	Ion-isolated: 22 mA Average at 24 VAC; 28 mA Average at 24 VDC				
		Isolated: 5 mA Maximum, Non-transmitting (From SA Bus)				
Power Consumpti	ion	Non-isolated: Less Than 0.7 W Average				
Terminations		Non-isolated Supply: Screw Terminal Block				
		SA Bus: Modular Jack or Screw Terminal Block				
Sensor Addressin	ıg	DIP Switch Set from 212 to 219; Factory Set at 212				
Wire Size		Modular Jack: 24 or 26 AWG (0.5 or 0.4 mm Diameter) Recommended; Three Twisted Pair (Six Conductors)				
		Screw Terminal Block: 18 to 22 AWG (1.0 to 0.6 mm Diameter); 22 AWG (0.6 mm Diameter) Recommended				
Communication R	late	Auto-Detect: 9.6k, 19.2k, 38.4k, or 76.8k bps				
CO ₂ Measuremen	t Range	0 to 2,000 ppm				
CO ₂ Sensing Accuracy		Plus or Minus the Sum of 50 ppm and 3.0% of the CO ₂ Reading at 77°F (25°C) and 978 hPa or an Altitude of 1,000 ft/300 m Note: All accuracy specifications reflect the testing of the device using high-grade certified gases. This device is intended for an altitude range of 0 ft/0 m to 2,000 ft/600 m above sea level without compensation.				
		Temperature Dependence of Output: -0.35% of the CO ₂ Reading per 1.8F°/1C° Typical				
		Pressure Dependence of Output: +0.15% of the CO ₂ Reading per 1 hPa Typical				
CO ₂ Sensing Reso	olution	1 ppm				
CO ₂ Sensing Resi		1 Minute (0 to 90%)				
CO ₂ Sensing War		Less Than 1 Minute; Less Than 10 Minutes for Full Accuracy				
CO ₂ Sensing Wan	-					
	g-rerm Stability	Less Than ±100 ppm Over 5 Years				
Mounting		Surface-Mounted or Vertical Wallbox-Mounted: 120 x 80 mm				
Ambient Conditio	ns	Operating: 32 to 104°F (0 to 40°C); 10 to 90% RH, Noncondensing; 85°F (29°C) Maximum Dew Point; 700 to 1,200 hPa				
		Storage: -40 to 158°F (-40 to 70°C); 0 to 95% RH, Noncondensing				
Compliance	BACnet International	BACnet Testing Laboratories™ (BTL) 135-2004 Listed BACnet Smart Sensor (B-SS)				
C€	United States	UL Listed, File E107041 CCN PAZX, Under UL 916, Energy Management Equipment; FCC Compliant to CFR 47, Part 15, Subpart B, Class A				
	Canada	UL Listed, File E107041, CCN PAZX7, Under CAN/CSA C22.2 No. 205, Signal Equipment; Industry Canada, ICES-003				
	Europe	CE Mark – Johnson Controls, Inc., declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive 2004/108/EC.				
_	Australia and New Zealand	C-Tick Mark, Australia/NZ Emissions Compliant				
Supply Voltage		0.35 lb (0.16 kg)				



	NS Se	ries Network Zone Sensor — Flush-Mount Temperature Only Model				
Supply Voltage		9.8 to 16.5 VDC; 15 VDC Nominal (From SA Bus)				
Current Consump	otion	12 mA Maximum (Non-transmitting) per Flush-Mount Network Sensor				
Terminations		Screw Terminal Block Note: Wire leads are field supplied and are not tinned.				
Sensor Addressir	ng	DIP Switch Set from 200 to 203; Factory Set at 203				
Wire Size		18 to 22 AWG (1.0 to 0.6 mm Diameter); 22 AWG (0.6 mm Diameter) Recommended; 10 ft (304.8 cm) Wiring Lead Included with the Unit				
Communication F	Rate	Auto-Detect: 9.6k, 19.2k, 38.4k, or 76.8k bps				
Temperature Mea	surement Range	2.0°F/0.0°C to 104.0°F/40.0°C				
Temperature Sens	sor Type	Local Platinum Resistance Temperature Detector (RTD)				
Temperature Sens	sor Accuracy	±1.0F°/±0.6C°				
Ambient Condition	ns	Operating: 32 to 104°F (0 to 40°C); 10 to 90% RH, Noncondensing; 85°F (29°C) Maximum Dew Point				
		Storage: -40 to 158°F (-40 to 70°C); 5 to 95% RH, Noncondensing				
Compliance	BACnet International	BACnet Testing Laboratories™ (BTL) 135-2004 Listed BACnet Smart Sensor (B-SS)				
	United States	UL Listed, File E107041, CCN PAZX, Under UL 916, Energy Management Equipment; FCC Compliant to CFR 47, Part 15, Subpart B, Class A				
	Canada	UL Listed, File E107041, CCN PAZX7, Under CAN/CSA C22.2 No. 205, Signal Equipment; Industry Canada, ICES-003				
CE	Europe	CE Mark – Johnson Controls, Inc., declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive 2004/108/EC.				
	Australia and New Zealand	C-Tick Mark, Australia/NZ Emissions Compliant				
Shipping Weight	•	0.25 lb (0.11 kg)				

		NS Series Network Discharge Air Sensors				
Supply Voltage		9.8 to 16.5 VDC; 15 VDC Nominal				
Current Consumption	on	12 mA Maximum (Non-transmitting) per Discharge Air Sensor				
Terminations		Four Color-Coded Wiring Leads, Stripped and Tinned; Factory-Installed at the Discharge Air Sensor Screw Terminal Block				
Sensor Addressing		DIP Switch Set from 204 to 211; Factory Set at 204				
Wire Size		8 to 22 AWG (1.0 to 0.6 mm Diameter); 22 AWG (0.6 mm Diameter) Recommended; 0 ft (305 cm) Wiring Lead Included with the Unit				
Communication Ra	te	Auto-Detect: 9.6k, 19.2k, 38.4k, or 76.8k bps				
Mounting		Duct-Mounted: 4 or 8 in. (102 or 203 mm) Temperature Probe Length				
Temperature Measu	rement Range	14°F/-10°C to 140°F/60°C				
Temperature Senso	r Type	Local Platinum Resistance Temperature Detector (RTD)				
Temperature Senso	r Accuracy	±1.0F°/±0.6C°				
Ambient Conditions	5	Operating: 14 to 140°F (-10 to 60°C); 10 to 90% RH, Noncondensing; 85°F (29°C) Maximum Dew Point				
		Storage: -40 to 158°F (-40 to 70°C); 5 to 95% RH, Noncondensing				
Compliance	BACnet International	BACnet Testing Laboratories™ (BTL) 135-2004 Listed BACnet Smart Sensor (B-SS)				
	United States	UL Listed, File E107041, CCN PAZX, Under UL 916, Energy Management Equipment; FCC Compliant to CFR 47, Part 15, Subpart B, Class A				
	Canada	UL Listed, File E107041, CCN PAZX7, Under CAN/CSA C22.2 No. 205, Signal Equipment; Industry Canada, ICES-003				
CE	Europe	CE Mark – Johnson Controls, Inc., declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive 2004/108/EC.				
	Australia and New Zealand	C-Tick Mark, Australia/NZ Emissions Compliant				
Shipping Weight	•	NS-DTN7043-0: 1.15 lb (0.52 kg)				
		NS-DTN7083-0: 1.17 lb (0.53 kg)				