

Flush-Mounted RS7000 Series Sensor

Product Bulletin

RS-7040-0000, RS-7060-0000, RS-7080-0002

Code No. LIT-15052017

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The flush-mounted RS7000 series sensors are designed for use with Facility Explorer series or System 91 controllers from Johnson Controls and provides 0-10VDC signal directly proportional to the sensed temperature. Models are available with and without LCD display, room temperature set point adjustment, fan speed adjustment and temporary occupied override function.

RS-7060-0000 can toggle between temperature and RH on the display, and has the capability to set the desired default display to either temperature or RH. A fan mode push button is included in RS-7080-0002 to set the desired fan speed (OFF-LOW-MED-HIGH-AUTO). Besides RS-7040-0000, all other models have occupancy override button which allows user to signal the controller that the zone is occupied to override the scheduled mode.



Table 1: Features and Benefits

Features	Benefits
Aesthetic appearance	Modern design with larger LCD and thinner dimension, it's matching to many style rooms
Large backlit LCD	LCD is larger than 40% of front area, provide real time status of the environment with intuitive and clear user interface
Energy saving indicator	Green or red leaf symbol to indicate the RS7000 works in energy saving or not saving mode
New installation method	New method without opening RS7000 cover during installation, avoids the risk of components damage by screwdriver
Suitable for various installation box	Small back part which is suitable for all installation boxes available in China and Europe market.
Push button for user operation	User can change temperature set point, fan speed and occupied/unoccupied via push button. Easier for operation

IMPORTANT:

Use this RS7000 sensor only as an operating control. Where failure or malfunction of the RS7000 sensor could lead to personal injury or property damage to the controlled equipment or other property, additional precautions must be designed into the system. Incorporate and maintain other devices such as supervisory or alarm systems or safety or limit controls intended to warn of, or protect against, failure or malfunction of the RS7000 sensor.

Product dimensions:

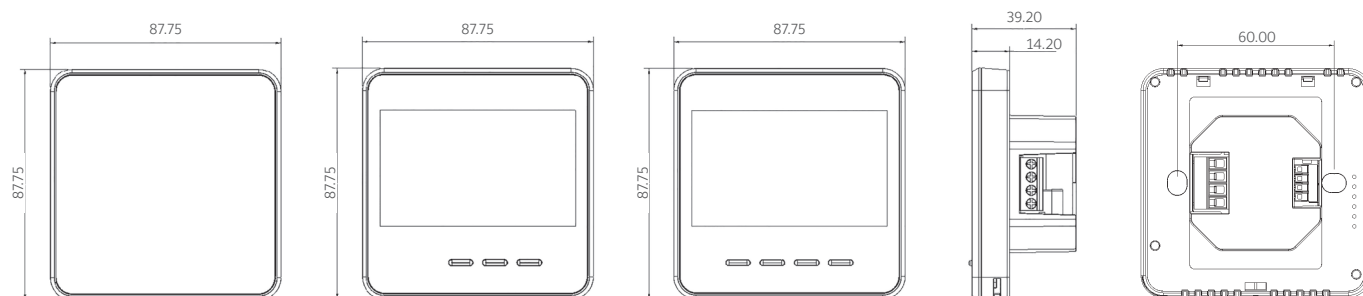


Table 2: RS7000 series sensor product code number

Product code number	Color	LCD	Fan control	Humidity ¹	Temp. adjustment ²	F/C scale toggle	Occupancy override	Screw terminal	Output ³
RS-7040-0000	White	No	No	Yes	N/A	No	No	ST	0-10VDC
RS-7060-0000	White	Yes	No	Yes	Set/WC	Yes	Yes	ST	0-10VDC
RS-7080-0002	White	Yes	Yes	No	Set/WC	Yes	Yes	ST	0-10VDC

Note:

1. For models with humidity sensor, the humidity value also can be displayed in LCD, and the measurement accuracy is $\pm 3\%$ RH.
2. Set/WC means this model can work under set or WC (Warmer/Cooler) mode, selected in setting.
3. Each of room temperature, room humidity, temperature set point and fan speed corresponding to one 0-10VDC output. The occupancy corresponding to one open collector output.

Technical specifications:**RS7000 series sensor**

Supply Voltage	15VDC nominal
Terminations	Screw terminal block
Output	RS-7040-0000: two 0-10VDC output
	RS-7060-0000: three 0-10VDC output, one open collector output (30V@50mA)
	RS-7080-0002: three 0-10VDC output, one open collector output (30V@50mA)
Wire size	Screw terminal block 18-22AWG (1.0-0.6mmdiameter); 22AWG (0.6 mm diameter) recommended
Mounting	Flush-mounted
Temperature measurement range	0-40°C (32-104°F)
Humidity measurement range	Full range: 0-100% RH
Temperature accuracy	$\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$)
Humidity accuracy	$\pm 3\%$ RH
Default temperature set point adjustment range	5.0°C to 35.0°C (41.0-95.0°F) in 0.5° increments
Ambient conditions	Operating: 0-40°C (32-104°F), 10-90%RH, noncondensing, 29°C (85°F) maximum dew point
	Storage: -20-60°C (-4-140°F), 5-95% RH, noncondensing
Shipping weight	Approx. 300g
Compliance	CE mark
	RCM mark, Australia/NZ emissions compliance
	RoHS, REACH, WEEE

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