Sensor Comparison

Feature	RS Line	ZS Line
Power requirements	Supplied by the 4-conductor cable (+12 Vdc @ 210 mA) from the controller.	The 4-conductor Rnet cable from a controller supplies +12 Vdc @ 210 mA. External power may be required. Sensors including C02 utilize significantly more power than other sensor types. For additional power, use an external power supply. Use the power requirements listed and guidance in the Installation Guide to calculate the size of the external power supply.
Range/Accuracy	50°F to 95°F (10°C to 35°C) ±0.45°F (0.25°C)	**Temperature only range/accuracy:** 32 to 122°F (0 to 50°C) ±0.35°F (0.2°C) **Temperature if humidity is included range/accuracy:** 50 to 104°F (10 to 40°C) 0.5°F (0.3°C)
Environmental operating range	32–122°F (0–50°C), 10–90% relative humidity, non-condensing	-4 to 122°F (-20 to 50°C), 10 to 90% relative humidity, non-condensing
Overall dimensions	Width: 2-3/4 in. (6.9 cm) Height: 4-3/4 in. (12.1 cm) Depth: 5/8 in. (1.6 cm)	**Temperature sensor or temperature/humidity:** Width: 3 in. (7.62 cm) Height: 4-13/16 in. (12.22 cm) Depth: 13/16 in. (2.01 cm) **Temperature/humidity sensor with CO2 or VOC:** Width: 2-7/8 in. (7.3 cm) Height: 4-13/16 in. (12.22 cm) Depth: 1-1/4 in. (3.18 cm)
Physical labels	English button labels (warmer, cooler, etc)	Symbol button labels ⏻ ▲ ▼ *i* ✿ ❄/💧
LCD display	Non customizable	Customizable. See Application Guide for details.
Occupancy indication	RS Pro - Occupied/Unoccupied on LCD display RS Plus - Red LED indication	Green LED indication ZS Pro / ZS Pro-F ZS Plus
Degree F/C changeover on display	Not available	ZS Pro - Change display with a BV parameter in control program ZS Pro-F - Change display with a BV parameter in control program or with deg F/C switch on side of sensor
Rnet configuration	1 RS Plus, RS Pro, or RS Pro-F 1–4 RS Standards 1–4 RS Standards, and 1 RS Plus, RS Pro, or RS Pro-F Any of the above combinations, plus up to 2 BACview® devices, but no more than 6 devices total.	Up to 15 ZS Sensors of any combination Up to 2 BACviews * Although an Rnet can have 15 ZS Sensors, you can have no more than 5 sensors per control program.
Eikon® LogicBuilder programming	Use RS Zone Sensor and RS Zone Sensor with Fan Control Microblocks	Use BACnet Analog Sensor Value Input and Sensor Binder Microblocks

RS vs. ZS Sensors

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