

Series 2200/3200 Communicating Room Sensors for Use with Siemens Terminal Equipment Controllers



QxAx2xx.EWSC
Sensing Only



QxAx2xx.DWSC
with Display



QxAx2xx.FWSC
Full HMI

Description

These Series 2200/3200 Room Sensors are designed for use with Siemens Terminal Equipment Controllers (TECs)*. The sensor and controller communicate using an RJ-11 cable with plug connections at both ends for easy and error-free wiring. Installation is quick and straightforward with all hardware included for mounting on a standard 2" x 4" electrical box. Screws and anchors are provided for mounting the sensor directly to a wall. Matching gaskets and trim rings are also available.

All units include an RJ-11 tool port at the bottoms of the sensor housings for connection to Siemens configuration, commissioning and start-up tools.

QAA Series Sensors measure room temperature, while QFA Series sensors measure both temperature and relative humidity. The QPA Series Sensors measure temperature and CO₂ or temperature, CO₂* and relative humidity.

QPA Series sensors are designed to help maintain occupant comfort and are not intended for use in life safety applications.

The "E" versions have a blank front to prevent unauthorized adjustments and are ideal for high traffic areas or remote spaces that are not supervised.

The "D" versions display room temperature and/or room humidity.

The "F" versions feature a full HMI that can display room conditions and temperature setpoint. The display is easily configured to limit the information that is available to the occupant. Temperature setpoint can be adjusted using soft touch plus (+) and minus (-) keys, and an override key enables the user to manually signal to the controller that the space is occupied.

Specifications

Temperature	
Measuring range	32°F to 122°F (0°C to 50°C)
Accuracy	
QAA2280.EWxC	± 0.50°F (± 0.28°C)
QAA2280.DWxC	± 0.9°F (± 0.5°C)
QAA2280.FWxC	± 0.9°F (± 0.5°C)
QPA2282.EWxC	± 0.9°F (± 0.5°C)
All others	± 0.54°F (± 0.3°C) @ 77°F (25°C)
Humidity (QFA and QPA2284)	
Measuring Range	0 to 100% rh
Accuracy	± 2% between 10 to 90%
Long-Term Stability	<0.5% rh/year
Resolution	0.03% rh
Repeatability	± 0.1% rh
CO ₂ (QPA Models)	
Technology	Dual Beam NDIR
Measuring Range	0 to 2000 PPM
Accuracy*	± (50 ppm + 2% of MV)
Field Calibration	Not required
CO ₂ Drift	± 5% of range over 5 years
Setpoint/Override ("F" versions only)	
Setpoint Range	55°F to 95°F (13°C to 35°C)
Input Power	
QAA and QFA	Powered using TEC RJ-11 port
QPA	Requires AQM2200
Agency Listing	UL cUL CE FCC RCM
Color	White
Dimensions	4.5" x 2.75" x 1.18" (115 mm x 70 mm x 30 mm)
Shipping Weight	6 oz. (170 g)

* Allow up to 96 hours for unit to reach published accuracy.

Product Ordering Information

Part Number ¹⁾	Temp	Humidity ²⁾	CO ₂ ³⁾	Display	Setpoint Adjustment	Tool Port	Communication Type
QAA2280.DWSC	•	—	—	•	—	•	Digital (P1)
QAA2280.EWSC	•	—	—	—	—	•	Analog - Resistive
QAA2280.FWSC	•	—	—	•	•	•	Digital (P1)
QFA3280.DWSC	•	•	—	•	—	•	
QFA3280.EWSC	•	•	—	—	—	•	
QFA3280.FWSC	•	•	—	•	•	•	
QPA2282.EWSC ²⁾	•	—	•	—	—	•	
QPA2284.EWSC ²⁾	•	•	•	—	—	•	
QPA2284.FWSC ²⁾	•	•	•	•	•	•	
QPA2284.FWSC ²⁾	•	•	•	•	•	•	

¹⁾ For no-logo version, change "S" to "N" in part number position 10.

²⁾ QPA models require an AQM2200 24V Power Module.

³⁾ P1 TECs cannot read relative humidity and CO₂ data. Use BACnet TECs for applications requiring these measurements.

Accessories Ordering Information

Description	Part Number
Power Module ¹⁾ (Required only with QPA2282 and QPA2284 sensors)	AQM2200
Room Unit Back Plate (10-pack) ¹⁾	AQA2200-INTL
Room Unit Back Plate (Single) ¹⁾	AQA2200-2X4
Room Sensor Insulating Gasket (10-pack) (Recommended for hollow wall installations.)	563-102 GSKT KIT
25-foot (7.6 m) cable with connections	588-100A
50-foot (15.2 m) cable with connections	588-100B
100-foot (30.5 m) cable with connections	588-100C
Passkey Tool (Used to set room unit parameters)	544-643A
Replacement RH Sensing Element – TEC Room Unit ²⁾	AQF3060

¹⁾ For use when installing Series 2200/3200 Sensors on conduit boxes other than US style 2" x 4". Back plate measures 3-1/4" x 5" (82.55 mm x 127 mm).

²⁾ For use with all QFA models and QPA2284.xxxx only.

Disposal



The devices are considered electrical and electronic equipment for disposal in terms of the applicable European Directive and may not be disposed of as domestic garbage.

- Dispose of the devices through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

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