

# 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)                              |
| All others          | ± 0.9°F (± 0.5°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                                        |
| CO2 (QPA Models)    |                                                  |
| Technology          | Dual Beam NDIR                                   |
| Measuring Range     | 0 to 2000 PPM                                    |
| Accuracy *          | ± (50 ppm + 2% of MV)                            |
| Field Calibration   | Not required                                     |
| CO2 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<br>cUL<br>CE<br>FCC<br>RCM<br>White           |
| Color               | White                                            |
| Dimensions          | 4.5" x 2.75" x 1.18"<br>(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 <sup>1)</sup>  | Temp | Humidity | CO2 | 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 <sup>2)</sup> | •    | —        | •   | —       | —                   | •         |                    |
| QPA2284.EWSC <sup>2)</sup> | •    | •        | •   | —       | —                   | •         |                    |
| QPA2284.FWSC <sup>2)</sup> | •    | •        | •   | •       | •                   | •         |                    |

<sup>1)</sup> For no-logo version, change "S" to "N" in part number position 10

<sup>2)</sup> QPA models require AQM2200 24V Power Module

## Accessories Ordering Information

| Description                                                                             | Part Number      |
|-----------------------------------------------------------------------------------------|------------------|
| Power Module <sup>1)</sup>                                                              | AQM2200          |
| Room Unit Back Plate (10-pack) <sup>2)</sup>                                            | AQA2200-INTL     |
| Room Unit Back Plate (Single) <sup>2)</sup>                                             | AQA2200-2X4      |
| Room Sensor Insulating Gasket (10-pack)<br>(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 <sup>3)</sup>                            | AQF3060          |

<sup>1)</sup> One AQM2200 Power Module must be purchased for each Series 2200 CO2 Room Unit (QPA Series) installed. Without the Power Module, the room unit will not power up.

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

<sup>3)</sup> For use with all QFA models and QPA2284.xxxx only.

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