

2019-04-17

GMW93 Series Carbon Dioxide, Temperature, and Humidity Transmitter for Demand Controlled Ventilation Applications



Features/Benefits:

- Measures: carbon dioxide, temperature, and humidity (optional)
- Traceable calibration (certificates included)
- Display is standard, solid cover is optional
- Convenient calibration: field replaceable modules (certificates included), gas reference port for reference gas bottles, reference meters with communication cable or potentiometers
- Accurate temperature and humidity measurement due to low self-heating.
- Six humidity calculated parameters available such as dew point
- Excellent long-term stability, even in buildings with 24/7 occupancy

Summary:

Carbon dioxide, temperature and humidity wall mount transmitter shall incorporate a silicon-based CARBOCAP® NDIR sensor. Measurement range of 0...5000 ppm CO₂, 0 to 95% RH and -5 ... +55 °C (+23 ... +131 °F) temperature. CO₂ accuracy from 20 to 30°C (68 to 86°F) is ± (30 ppm + 2 % of reading). Total CO₂ accuracy in room temperature applications must be ±75 ppm at 600 and 1000 ppm including 5 years drift; temperature accuracy must be ±0.5 °C (± 0.9 °F) between +20 ... +30 °C (+68 ... +86 °F); relative humidity sensor must be a thin film polymer capacitive HUMICAP® 180R humidity sensor with accuracy of ±2.5 %RH for the 0...60%RH range at +10 ... +40 °C (+50 ... +104 °F). Transmitter to be powered by 18 ... 35 VDC or 24 VAC and provide linear output signals of 0...5V or 0...10V corresponding to 0...5000 ppm CO₂, 0...95% RH and -5 ... +55 °C (+23 ... +131 °F) temperature. Shall include a traceable calibration with certificate. Must be capable of calibration check in place using certified gases, a portable meter or having a field exchangeable calibrated module. Shall be available with a cover having a display opening or a solid front.

Vaisala model: GMW93 (two 0...5V / 0...10V analog outputs – CO₂ and Temp)

Vaisala model: GMW93D (two 0...5V / 0...10V analog outputs – CO₂ and Temp; display included)

Vaisala model: GMW93R (three 0...5V / 0...10V analog outputs – CO₂ and Temp and RH)

Vaisala model: GMW93RD (three 0...5V / 0...10V analog outputs – CO₂ and Temp and RH; display included)

Vaisala model: GMW93RA (three 0...5V / 0...10V analog outputs – CO₂ and Temp and RH; display included; CO₂ indicator LEDs)