VAISALA

GMW83 Series Carbon Dioxide, Temperature, and Humidity Transmitter for Demand Controlled Ventilation Applications

Features/Benefits:

- Measures: carbon dioxide, temperature, and humidity (optional)
- Superior stability due to 2nd-gen proprietary CARBOCAP® technology
- Voltage output
- Accurate temperature and humidity measurement due to low self-heating.
- 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…2000 ppm CO2, 0 to 95% RH and 0 … +50 °C (+32 … +122 °F). CO2 accuracy from 20 to 30°C (68 to 86°F) is ± (30 ppm + 3 % of reading). Stability in typical conditions is ± (15 ppm + 2 % of reading) over 5 years. Temperature accuracy from +10 … +30 °C (+50 … +86 °F) must be ±0.5 °C (± 0.9 °F); relative humidity sensor must be a thin film polymer capacitive INTERCAP® humidity sensor with accuracy of ±3 %RH. Transmitter to be powered by 18 … 35 VDC or 24 VAC. Linear output signals of 0…10V or 4…20mA corresponding to 0…2000 ppm CO2, 0…95% RH and 0…50°C (+32 … +122 °F) temperature. Transmitter shall be available with a solid cover or visible display.

Vaisala model: GMW83 (two 0…10V analog outputs – CO2 and Temp)
Vaisala model: GMW83D (two 0…10V analog outputs – CO2 and Temp; display included)
Vaisala model: GMW83A (two 0…10V analog outputs – CO2 and Temp; CO2 level indication LEDs)
Vaisala model: GMW83RP (three 0…10V analog outputs – CO2, Temp, RH)
Vaisala model: GMW83DRP (three 0…10V analog outputs – CO2, Temp, RH; display included)
Vaisala model: GMW83RPC (three 0…10V analog outputs – CO2, Temp, RH; one point calibration included)
Vaisala model: GMW83DRPC (three 0…10V analog outputs – CO2, Temp, RH; one point calibration and display included)

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