CO2, HUMIDITY & TEMPERATURE TRANSMITTER

T8000 SERIES

DESCRIPTION

The **Telaire/Amphenol Advanced Sensors T8000 Series Ventostat CO2/RH/Temperature Transmitter** is the next generation CO2 sensors from GE Sensing. Each Ventostat comes with a passive 10kΩ Type II thermistor and has simultaneously active voltage and current outputs for CO2 measurement. The T8100 and T8300 features reliable automatic calibration using patented Telaire ABC logic that will ensure accurate and stable calibration for the lifetime of the sensor. The T8200 offers an accurate solution for hospitals and other full time operational 24 hours a day facilities. Both the T8100 and the T8200 are available with optional and selectable analog humidity and temperature outputs. The T8300 offers all of the accuracy of the T8100 but utilizes a pitot tube kit for measuring duct levels of CO2.

T8100-D

FEATURES

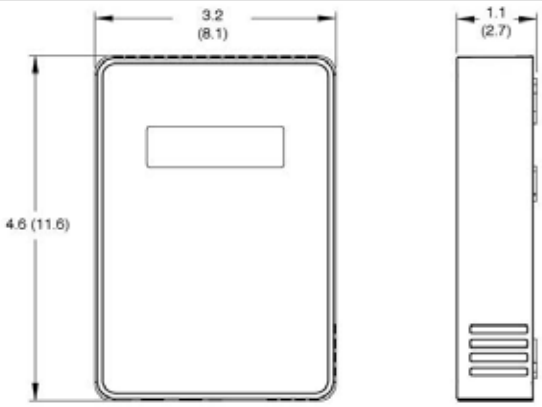
- ***Simultaneous voltage and current outputs for CO2***
- ***Maintenance free lifetime self-calibration***
- ***Passive temperature output***
- ***Non-dispersive infrared sensor***
- ***Ideal for 24 hours per day facilities (T8200)***
- ***Optional display available***
- ***Optional active temperature and humidity outputs***
- ***Relay and Night setback models***
- ***Lifetime warranty with single channel ABC logic***

SPECIFICATIONS

Supply Voltage	18-30 VAC @ 0.7 VA, 50/60 Hz or 18-42 VDC @ 29 mA
Accuracy	
T8100/T8300	400-1250 ppm: 3% or 30 ppm, whichever is greater; 1250-2000 ppm: ±5% +30ppm,
T8200	10% or 75 ppm, whichever is greater;
Humidity	±2.5% RH (20 to 80% RH)
Temperature	±0.8% @ 72°F (22°C)
Signal Output	0-5V, 0-10V, or 4-20 mA (500 ohms) selectable for CO2, humidity, or temperature (simultaneous current or voltage output for CO2)
Measurement Range	
CO2	0 to 2000 ppm
Humidity	0 to 99% RH (non condensing)
Temperature	32° to 122°F (0° to 50°C)
Optional Relay	SPDT, 0.5 A @ 125 VAC, 1 A @ 24 VDC
Sensing Technology	
CO2	Non-dispersive infrared (NDIR)
Humidity	Capacitive polymer
Temperature	Passive: 10kΩ Type II thermistor
Warm up time	(CO2) 10 minutes
Display	Scrolling LCD
Response Time	5 seconds
Operating Temperature	32° to 122°F (0° to 50°C)
Operating Humidity	0% to 95% RH
Weight	1.0 lb (0.45 Kg)
Approvals	RoHS, CE
Warranty	1 year (lifetime on calibration)

DIMENSIONS

in
(cm)



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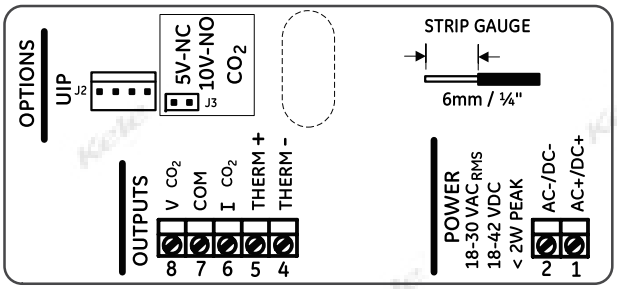
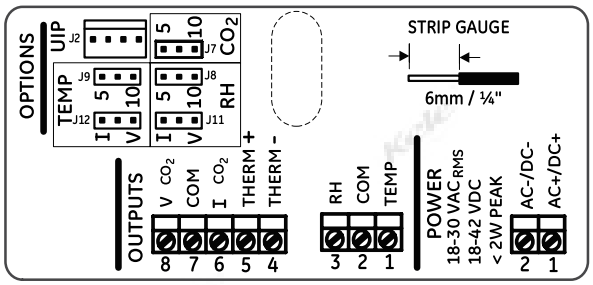
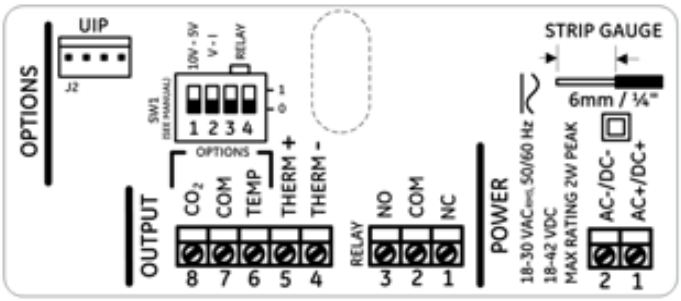
WIRING



Non-Display Wiring



Display Wiring



Interal Label

ORDERING INFORMATION

MODEL	DESCRIPTION
T8100	Wall-mount CO2 sensor, white
T8100-B	Wall-mount CO2 sensor, black
T8100-D	Wall-mount CO2 sensor, LCD display, white
T8100-D-R	Wall-mount CO2 sensor, relay, LCD display, white
T8100-DB	Wall-mount CO2 sensor, LCD display, black
T8100-H	Wall-mount CO2, RH, and active temperature
T8100-HD	Wall-mount CO2, RH, and active temperature, LCD display
T8100-HDB	Wall-mount CO2, RH, and active temperature, LCD display, black
T8100-NS	Wall-mount CO2 sensor, white, with nightsetback override button
T8100-NSP	Wall-mount CO2 sensor, white, with nightsetback override button
T8200	Wall-mount CO2 sensor, no display, white
T8200-B	Wall-mount CO2 sensor, no display, black
T8200-D	Wall-mount CO2 sensor, LCD display, white
T8200-DB	Wall-mount CO2 sensor, LCD display, black
T8300-B	Duct mount, pitot tube kit CO2 sensor, black
T8300-DB	Duct mount, pitot tube kit CO2 sensor LCD display, black
T8200-D-5P-R	Wall-mount CO2 sensor, relay, temperature, LCD display, white

RELATED PRODUCTS

T1508	Duct-mount accessory enclosure
T1552	OSA-mount accessory enclosure, with heater (24 VAC)
T2090	UIP software configuration software for the T8100, T8200 and T8300 transmitters