

GAS & SPECIALTY SENSORS

TELAIRE WALL MOUNT CO2 TRANSMITTER T5100 SERIES



DESCRIPTION

The Telaire/Amphenol Advanced Sensors T5100 Series Wall Mount CO2 Transmitter offers low cost, high performance CO2 transmitters for the building controls market. It works seamlessly with building automation systems, and allows you to simply and effectively control fresh air into a ventilated to regulated standards, providing immediate energy savings.

FEATURES

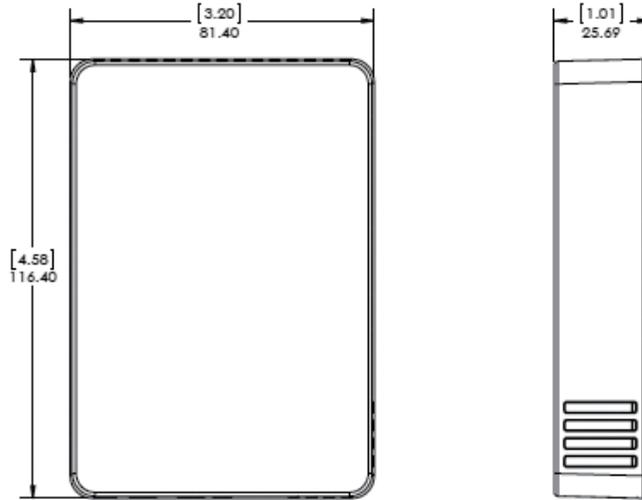
- Patented, Absorption Infrared Gas sensing engine provides high accuracy in a compact low cost package
- Patented ABC Logic™ self-calibration system eliminates the need for manual calibration in most applications
- Lifetime CO2 calibration guarantee when using ABC Logic™
- Mounting plate with two-piece terminal blocks provide quick, easy wiring
- Gas permeable, water resistant CO2 diffusion filter prevents particulate and water contamination of the sensor
- Locking screw secures cover and sensor to the mounting bracket for tamper resistance
- Sensors are shipped factory calibrated
- Modern enclosure
- Low cost
- Reliable (20 years of low-cost infrared sensor manufacturing)
- Available output options: Voltage 0-10V or 0-5V (jumper selectable) or current 4-20 mA
- UIP software compatible for customizations
- CE, RoHS, REACH and WEEE compliant
- Lifetime calibration warranty
- Two enclosure sizes for regional acceptance

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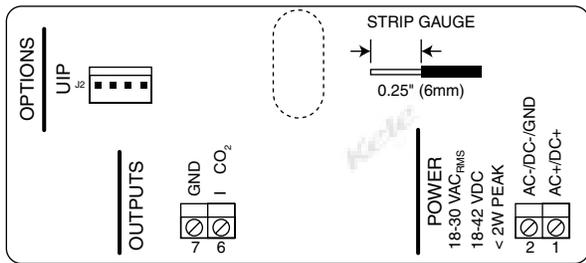
GAS & SPECIALTY SENSORS

SPECIFICATIONS	
Supply Voltage	18 to 30 VAC RMS, 50/60 Hz or 18 to 42 VDC, polarity protected.
Signal Output	T5100-V : 0 to 5V or 0 to 10V Field Configurable (100 OHM output impedance) T5100-I : 4 to 20mA (RL maximum 500 OHM) T5100-LED : 0 to 5V, 0 to 10V, 4-20mA Field Configurable (100Ω output impedance)/ Or 4 to 20 mA (RL maximum 500Ω)
Power Consumption	Typical 0.7 W at nominal voltage of 24V AC RMS
Signal Update Accuracy	Every 5 seconds ±30 ppm or 3% of the reading shown, whichever is higher* (*CO2 accuracy statement excludes standard gas used for calibration that has an accuracy of 2%. In addition, there is a potential digital to analog error of up to 2%.)
Stability	<2% of FS over life of sensor (15 years)
Temperature Dependence	0.2% FS per °C (±0.11% per °F)
Measurement Range	0 to 2000 ppm
Sensing Method	Non-dispersive infrared (NDIR) absorption, Gold-plated optics, Patented ABC Logic self calibration algorithm
Calibration Interval	None, uses ABC (Automatic Background Calibration)
Warm Up Time	<Two minutes (operational); 10 minutes to achieve maximum accuracy
Pressure Dependence	0.135% of reading per mmHg
Operating Humidity	0 to 95% relative humidity, non-condensing
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°F to 158°F (-40°C to 70°C)
Dimensions	4.58"H x 3.20"W x 1.01"D (116.40 x 81.40 x 25.69 mm)
Weight	0.5 lb
Approvals	CE, RoHS, REACH and WEEE compliant
Warranty	24 months on mechanical defects, Calibration - lifetime warranty (ABC Logic on.)

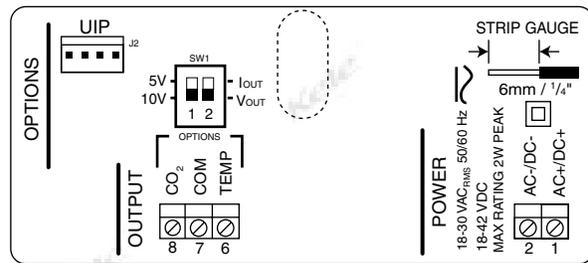
DIMENSIONS



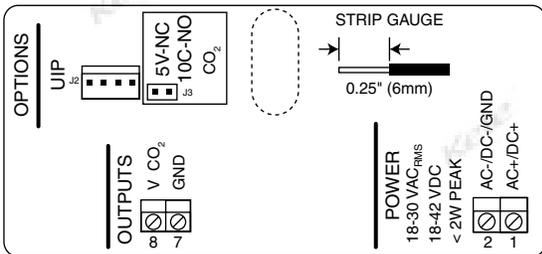
T5100 standard enclosure



T5100-I



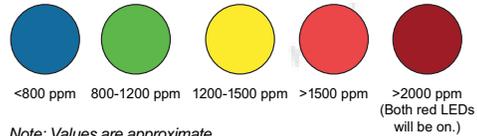
T5100-LED



T5100-V

LED Sequence

Color LEDs in dot mode indicate the level of CO₂ in the environment.



Note: Values are approximate.

ORDERING INFORMATION

T5100-V	Wall-Mount CO ₂ Sensor, 0 to 5V /0 to 10V out
T5100-I	Wall-Mount CO ₂ Sensor, 4-20mA Out
T5100-LED	Wall-Mount CO ₂ Sensor, 0 to 5V /0 to 10V/4-20mA out, LED Display

RELATED PRODUCTS	
T1508	Duct Mount Accessory enclosure (Aspiration Box)
T1552	OSA Mount accessory enclosure
T1505	Harsh Environment enclosure