



DESCRIPTION

The Telaire/Amphenol Advanced Sensors Models T5100 and 8041 Carbon Dioxide sensors are designed to monitor the CO₂ levels to provide an indication of occupancy for use in demand-controlled ventilation according to ASHRAE Standard 62. Model T5100 wall-mount carbon dioxide sensors are designed to monitor the CO₂ concentration in a room. The Model 8041 is a duct-mount sensors with 4" probes that monitor the carbon dioxide levels inside a duct air stream. Each model outputs a 0-10 VDC signal representing a 0-2000 ppm concentration of CO₂.

FEATURES

- Analog output, 0-5/10 VDC (field selectable) or 4-20 mA models
- ABC Logic(TM) automated calibration
- Non-dispersive infrared technology



T5100-X



8041



SPECIFICATIONS			
Supply Voltage 8041		18-30 VAC @ 1.7 VA, 50/60 Hz reverse polarity protected or 18-42 VDC @ 70 mA	Warm Up Time Response Time Pressure
T5100		18-30 VAC @ 0.7 VA, 50/60 Hz; 18-42 VDC @ 29 mA	
Accuracy 8041		Whichever is greater ±40 ppm or 3% reading	Wiring Terminations Operating Temperature Operating Humidity Dimensions
T5100		Whichever is greater ±30 ppm or 3% reading	
Signal Output		0-5/10 VDC @ 1kΩ, Field selectable, 4- 20 mA @ 500Ω	8041 Weight T5100-X 8041 Approvals Warranty
Linearity		<1% of Full scale	
Stability		<2% Full scale over life of sensor	
Temperature Dependence		0.1% Full scale per °F (0.2% FS per °C)	0.4 lb (0.11 Kg) 0.5 lb (0.23 Kg) CE, RoHS 2 years
Measurement Range		0-2000 ppm (factory setting)	
Calibration Interval		None, uses ABC Logic (Automatic Background Calibration)	

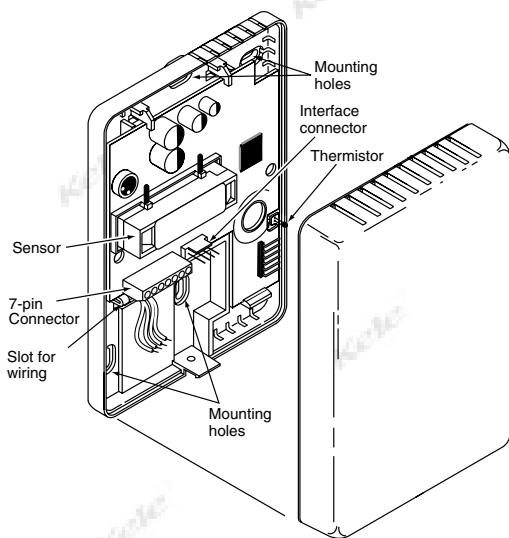


GAS & SPECIALTY SENSORS

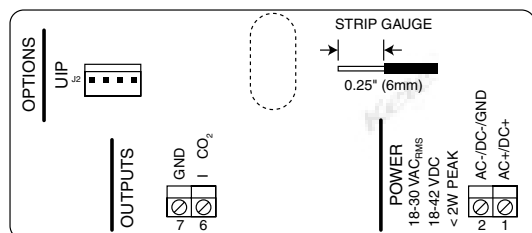
CARBON DIOXIDE SENSORS

T5100, 8041

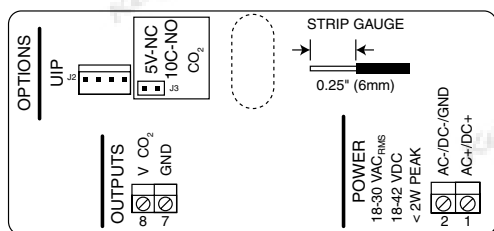
WIRING



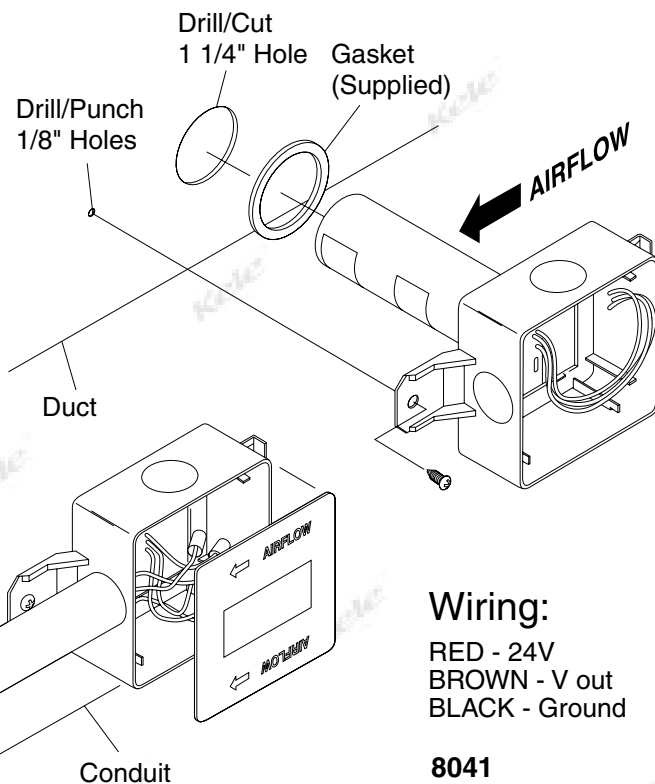
T5100



T5100-I



T5100-V



Wiring:

RED - 24V
BROWN - V out
BLACK - Ground

8041

1. Before installing sensor, note the direction of the airflow. Ensure all mounting holes are sealed tightly.
2. Drill/Cut one 1-1/2" hole / Punch/Drill one 1/8" hole.
3. Slide sensor into 1-1/2" hole and secure with screws.
4. Connect conduit and make necessary wire connections.
5. Install lid, ensure it snaps into place.

ORDERING INFORMATION

MODEL
8041
T5100-V
T5100-I
T5100-LED

DESCRIPTION
Duct-mount carbon dioxide sensor, 0-10 VDC analog output, 4" probe
Wall-mount carbon dioxide sensor, 0-5/10 VDC analog output, field selectable
Wall-mount carbon dioxide sensor, 4-20 mA analog output
Wall-mount carbon dioxide sensor, 4-20 mA analog output with LED

RELATED PRODUCTS

UCK-1
DCPA-1.2
691-K0A
DCP-1.5-W

Universal calibration kit for non-corrosive gases (N₂, CO₂, CH₄, H₂, O₂, CO, and refrigerants)
Power supply, 120 VAC IN to 24 VAC/24 VDC OUT
Control transformer, 120:24 VAC, 40 VA, Class 2
Power supply, 24 VAC IN to 24 VDC OUT