Telaire CO₂, Humidity and Temperature Products

Delivering Better Indoor Air Quality and Energy Efficiency
Telaire products have been at the forefront of Carbon Dioxide sensing technology for the last 25 years and are the originators of the maintenance free CO₂ Non Dispersive Infrared (NDIR) sensor. Telaire has over 35 patents around it’s technology including ABC logic that warrants calibration for the life of the sensor. Telaire products are designed with pride in Santa Barbara, California.

**Demand Controlled Ventilation (DCV) reduces energy consumption and maintains comfort**

What is it? DCV becomes an integral part of a building’s ventilation design that adjusts the outside ventilation air based on the needs that those occupants create, not against an arbitrary flow rate: lower intake volumes reduce loads on heating and cooling and can improve heat exchanger efficiencies – all saving energy.

Why is building ventilation important? In ventilation applications, outdoor air is introduced to deal with three types of indoor pollution:

- Excessive CO₂ levels due to human occupancy
- Off-gassing from building components and furniture
- Odors from people
Telaire Wall Mounted HVAC Transmitters

8000 Ventostat Series
Premium CO₂, humidity and temperature transmitter.
• Available outputs
  - CO₂, temperature (active and passive) Relative Humidity.
  - 0-10V, 0-5V and 4-20 mA (user selectable)
  - BACnet, Modbus
  - Relay output.
• Night set override and slide temperature control
• Calibration ranges of CO₂ to 50,000 ppm
• Enclosures in black or white, with or without display.
• European and US style enclosures
• Lifetime calibration warranty, (standard product)
• 24 hour occupancy versions available with Telaire dual channel technology
• CE EMC, RoHS, REACH and WEEE Compliant

5100 Airestat LED Series
CO₂, temperature (active and passive)
• Available outputs
  - 0-10V, 0-5V and 4-20 mA user selectable
  - 0-2000ppm
• Color LED CO₂ level indication
• Europe and US style enclosures
• Lifetime calibration warranty
• CE EMC, RoHS, REACH and WEEE Compliant

5100 Airestat Series
CO₂ transmitter.
• Available outputs
  - 0-10V, 0-5V and 4-20 mA
• 0-2000ppm CO₂
• Europe and US style enclosures
• Lifetime calibration warranty, (standard product)
• CE EMC, RoHS, REACH and WEEE Compliant
Telaire Duct Mounted HVAC Transmitters

8000 Duct Series

Premium CO₂ duct transmitter.
- Available outputs
  - 0-10V, 0-5V and 4-20 mA (user selectable)
  - 0-2000ppm CO₂
- Pitot Tube and Aspiration Boxes available
- BACnet, Modbus
- Relay output.
- 0-50,000ppm CO₂ options
- Optional Display and black and white enclosures available.
- Lifetime calibration warranty
- 24 hour occupancy versions

8031/41/42 Duct Series

Standard Duct Mount CO₂
- Available outputs
  - 0-10V, 0-5V
  - 0-2000ppm CO₂
- OEM or on-site mount
- T8041 4.09 in (10.38 cm)
- T8042 8.07 (20.51 cm)
- Lifetime calibration warranty
- CE EMC, RoHS, REACH and WEEE Compliant
Telaire Wall Mounted HVAC Transmitters

T8700 Series
Premium Relative Humidity and temperature transmitter.
• Available outputs
  - 0-10V, 05V and 4-20 mA (user selectable)
  - Temperature (active and passive) Relative Humidity.
  - BACnet, Modbus
• 0-100% RH 0-50 deg C
• European and US style enclosures
• Display and Non-display
• Field replicable temp and RH sensor
• CE EMC, RoHS, REACH and WEEE Compliant

T7000 Series
Premium CO₂ Handheld transmitter.
• Measures CO₂ and Temperature
• 0-10000 ppm range
• Runs on 4 x AA Batteries For 100+ hours
• Power supply as standard for long term logging
• Voltage Output For Data logging
• A Portable Tool To Identify CO₂ DCV Opportunities
• Optional Hobo Data logger (CO₂, RH, & Temperature)
Telaire Accessories

**T3000 Series**

Harsh Environment CO₂ Transmitter
- Rated up to IP67 (build dependent)
- Different calibrations available up to 20% CO₂ concentration
- Available with potting
- Analogue or digital output options
- Non-Dispersive Infra-Red measuring technology
- Sensors are shipped factory calibrated.
- Accuracy for 10 year life.
- Extended operating temperature range
- Easy mount with 2 external tabs.

**Outside Air Enclosure**

Allows the 8000 and 5000 series transmitters to operate in an outdoor environment and/or where ambient temperatures are below freezing. Internal heaters to maintain the sensor within its normal operating temperature range, even if temperatures outside the enclosure are as low as -20°F (-29°C).

**T1505 Splash Resistant Enclosure**

The Model 1505 is designed to protect the T5100 series in damp or wet environments as might occur in agricultural, industrial or food processing environments.
User Interface Software
Windows based software for Telaire products and transmitters.
• Allows changes for
  - Altitude adjustments
  - CO\textsubscript{2} range
  - Output configuration
  - Relay output switch & hysteresis
  - Single point or span gas calibration
  - ABC logic on/off
• Graph and log reading for CO\textsubscript{2} Temperature and % RH

Telaire Humitrac and Humitrac XR
Range of Wall, Duct and Outside air RH and Temperature Transmitters available in Relative Humidity, Dewpoint, Enthalpy or Wet Bulb configurations
• Available outputs
  - 0-10V, 0-5V and 4-20 mA (user selectable)
  - 2%, 3%, or 5% RH accuracy
  - Passive and Active Temperature options
• NIST traceable (certification available)
• Robust, proven capacitive sensor
• Attractive and rugged packaging
• Temperature compensated
• Low cost of ownership
• Two year warranty
• Field Replaceable Sensor