

# **TELAIRE<sup>®</sup>**

## Telaire CO<sub>2</sub>, 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 CO<sub>2</sub> 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 CO<sub>2</sub> levels due to human occupancy
- Off-gassing from building components and furniture
- Odors from people

# Telaire Wall Mounted HVAC Transmitters

## 8000 Ventostat Series

Premium CO<sub>2</sub>, humidity and temperature transmitter.

- Available outputs
  - CO<sub>2</sub>, 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 CO<sub>2</sub> 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 Series

CO<sub>2</sub> transmitter.

- Available outputs
  - 0-10V, 0-5V and 4-20 mA
- 0-2000ppm CO<sub>2</sub>
- Europe and US style enclosures
- Lifetime calibration warranty, (standard product)
- CE EMC, RoHS, REACH and WEEE Compliant

## 5100 Airestat LED Series

CO<sub>2</sub>, temperature (active and passive)

- Available outputs
  - 0-10V, 0-5V and 4-20 mA user selectable
- 0-2000ppm
- Color LED CO<sub>2</sub> level indication
- Europe and US style enclosures
- Lifetime calibration warranty
- CE EMC, RoHS, REACH and WEEE Compliant



# Telaire Duct Mounted HVAC Transmitters

## 8000 Duct Series

Premium CO<sub>2</sub> duct transmitter.

- Available outputs
  - 0-10V, 0-5V and 4-20 mA (user selectable)
- 0-2000ppm CO<sub>2</sub>
- Pitot Tube and Aspiration Boxes available
- BACnet, Modbus
- Relay output.
- 0-50,000ppm CO<sub>2</sub> options
- Optional Display and black and white enclosures available.
- Lifetime calibration warranty
- 24 hour occupancy versions



T8300



T1508



T8041



T8042



T8031

## 8031/41/42 Duct Series

Standard Duct Mount CO<sub>2</sub>

- Available outputs
  - 0-10V, 0-5V
- 0-2000ppm CO<sub>2</sub>
- 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 CO<sub>2</sub> Handheld transmitter.

- Measures CO<sub>2</sub> 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 CO<sub>2</sub> DCV Opportunities
- Optional Hobo Data logger (CO<sub>2</sub>, RH, & Temperature)

# Telaire Accessories

## T3000 Series

Harsh Environment CO<sub>2</sub> Transmitter

- Rated up to IP67 (build dependent)
- Different calibrations available up to 20% CO<sub>2</sub> 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).

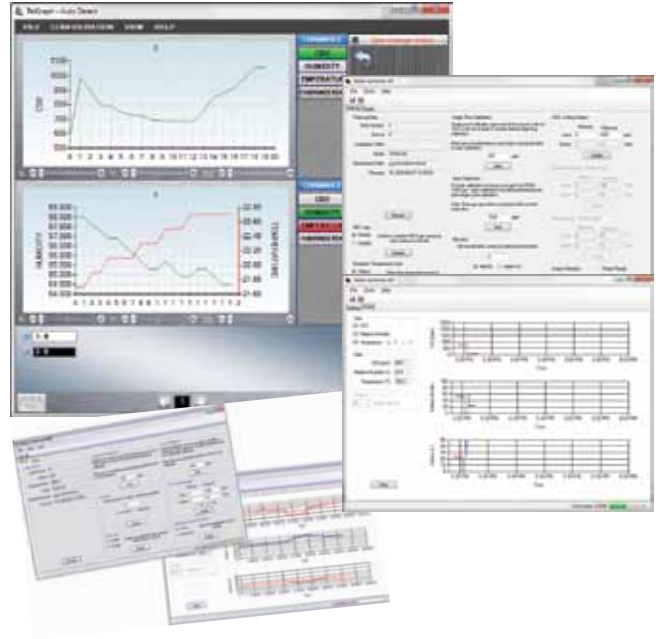
## T1505 Splash Resistant Enclosure

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<sub>2</sub> range
  - Output configuration
  - Relay output switch & hysteresis
  - Single point or span gas calibration
  - ABC logic on/off
- Graph and log reading for CO<sub>2</sub> 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





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