



## L02-05-0101 – Wall Mounted CO<sub>2</sub> Transmitter Product Data

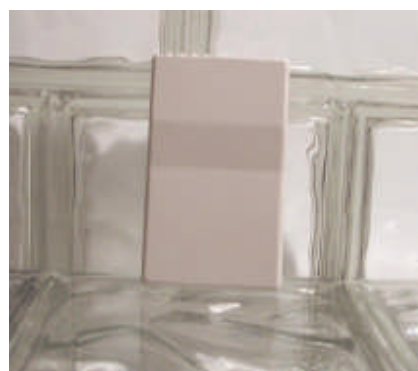
### Product Description

The L02-05-0101 wall mounted CO<sub>2</sub> transmitter monitors the carbon dioxide (CO<sub>2</sub>) levels in industrial and office type environments. The concentration of CO<sub>2</sub> is a good indication of the overall indoor air quality (IAQ). Guidelines provided by ASHRAE (62-1989), relate CO<sub>2</sub> levels to the amount of ventilation required in occupied spaces. Carbon dioxide levels in outside air range from 320 to 350 ppm. Indoor concentrations above 1000 ppm indicate the need for additional ventilation.

All units come with a 0-10 VDC analog output as well as the patented ABC Logic™ self-calibration system (Automatic Background Calibration).

The concentration of CO<sub>2</sub> is measured using a Single Beam Absorption Infrared Diffusion sampling method. This unit should not be used in environments such as greenhouses, wineries, breweries, or any other applications where industrial sources of CO<sub>2</sub> are present.

The ABC Logic™ software, eliminates the need for manual calibration in applications where the indoor CO<sub>2</sub> level drops to outside levels during unoccupied periods (ie. during evening hours). The ABC Logic™ will not work properly in applications where the space is left unoccupied for less than 4 hours a day or where there are industrial sources of CO<sub>2</sub> present such as breweries, wineries, or greenhouses. Upon initial installation, a warm-up period of more than two minutes is required and up to 30 minutes for full operating accuracy.



### Technical Data

#### Supply Voltage

#### Power Consumption

#### Output

#### Measurement Range

#### Accuracy

#### Non-Linearity

#### Sensitivity

#### Response Time

#### Temperature Dependence

#### Pressure Dependence

#### Operating Temp. Range

#### Operating RH Range

#### Calibration Interval

#### Agency Certifications

#### Design Life

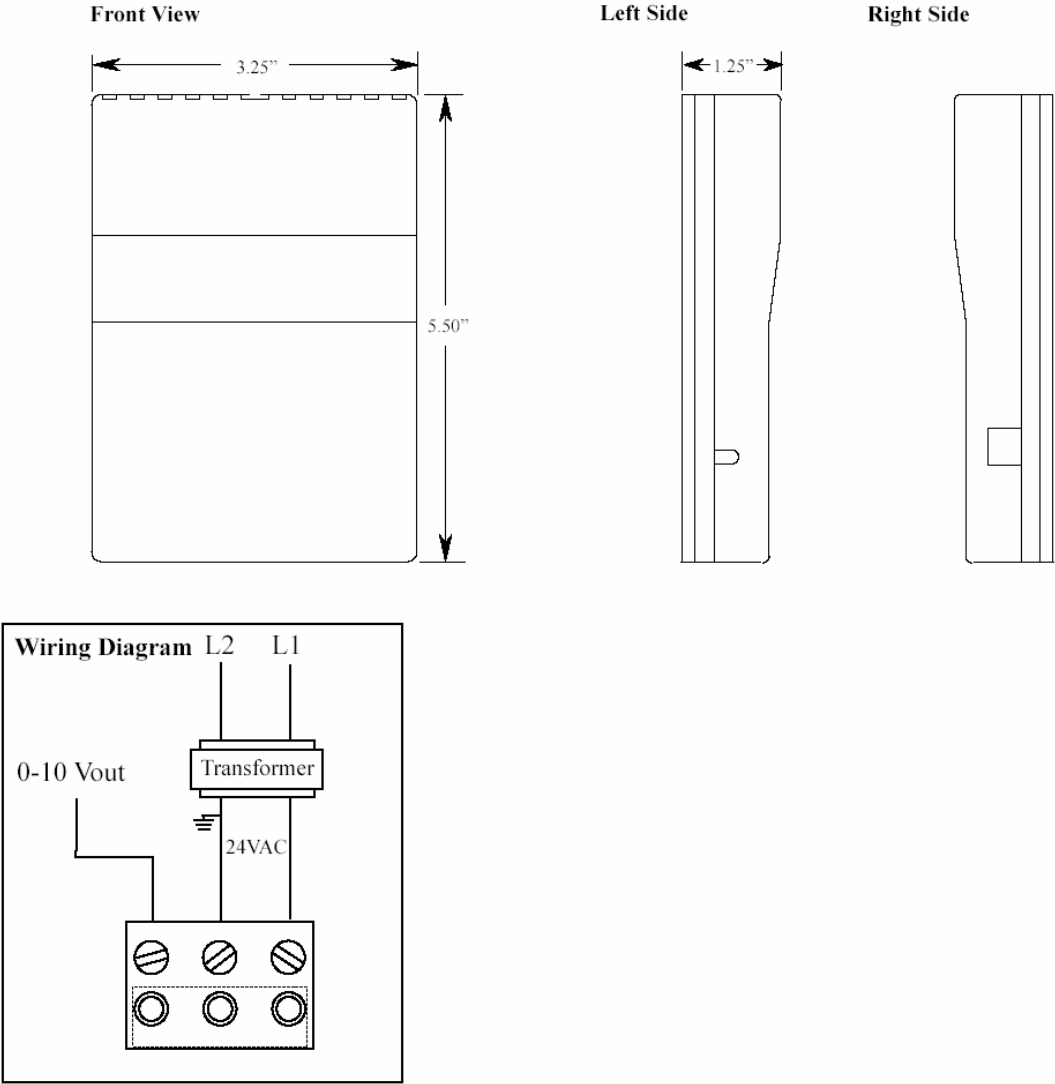
#### Sensor Coverage Area

- 18 to 30 VAC RMS, 50/60 Hz Half-Wave Rectified or +18 to 42 VDC
- 1.75 VA max. average power, 3.25 VA peak power
- 0 to 10 VDC (100 Ohm output impedance) (Source: 10 mA, Sink: 10 mA)
- 0 to 2000 ppm
- +/- 50 ppm or +3% of reading (Against factory certified calibration gas @ 25oC at standard pressure)
- < 1% of FS
- +/- 20 ppm
- <2 minutes (Sensor Response), 0 to 90% step change w/ (1) meter sampling tube at a worse case duct velocity of 1.3 m/s response time including sampling is <12 minutes
- +/- 0.15% FS/oC
- 0.13% of reading per mmHg from 760 mmHg
- 59 to 90oF (15 to 32oC) Temp Limits: 32 to 122oF
- 0 to 95%, non-condensing
- ABCLogic™, Automatic Self Calibration Software
- FCC, CE
- 15 Years, Typical
- 7,500 sq. ft. maximum



# L02-05-0101 – Wall Mounted CO<sub>2</sub> Transmitter

## Device Detail



## Mounting

The L02-05-0101 carbon dioxide transmitters are offered in an attractive wall mount configuration. The transmitter will mount directly to a standard 2" x 4" junction box and is encased in a beige enclosure.

## Ordering Information

Model #	Description
L02-05-0101	Wall Mount CO2 Transmitter with 0-10VDC Output