

## Bluetooth-enabled logger



Measures and records CO<sub>2</sub> in buildings and other non-condensing environments. Works with our free HOBObconnect app for data access right from your mobile phone, tablet, or Windows computer when within 100 feet of the logger.

This logger also features a USB port so it can be used with a computer running HOBOWare graphing & analysis software.

### Features :

- Wireless communication via Bluetooth technology
- Six-month battery life at 5-minute CO<sub>2</sub> logging rate
- Easy to deploy and offload using free HOBObconnect app
- Visual and audible high & low alarm thresholds
- Self-calibrating NDIR CO<sub>2</sub> sensor technology ensures optimal accuracy and lower maintenance costs
- Patented connectivity technology

**Technical Specifications:****Temperature Sensor**

Range	: 0° to 50°C (32° to 122°F)
Accuracy	: $\pm 0.21^{\circ}\text{C}$ from 0° to 50°C ( $\pm 0.38^{\circ}\text{F}$ from 32° to 122°F, see manual for plot)
Resolution	: 0.024°C at 25°C (0.04°F at 77°F)
Drift	: $<0.1^{\circ}\text{C}$ per year (0.18°F per year)

**RH Sensor\***

Range	: 1% to 90% RH (non-condensing)
Accuracy	: $\pm 2\%$ from 20% to 80% typical to a maximum of $\pm 4.5\%$ including hysteresis at 25°C (77°F); below 20% and above 80% $\pm 6\%$ typical
Resolution	: 0.01%
Drift	: $<1\%$ per year typical

**CO2 Sensor**

Range	: 0 to 5,000 ppm
Accuracy	: $\pm 50$ ppm $\pm 5\%$ of reading at 25°C (77°F), less than 90% RH (non-condensing) and 1,013 mbar
Warm-up Time	: 15 seconds
Calibration	: Auto or manual to 400 ppm
Non-linearity	: $<1\%$ of FS
Pressure Dependence	: 0.13% of reading per mm Hg (corrected via user input for elevation/altitude)
Operating Pressure Range	: 950 to 1,050 mbar (use Altitude Compensation for outside of this range)
Compensated Pressure Range	: -305 to 5,486 m (-1,000 to 18,000 ft)
Sensing Method	: Non-dispersive infrared (NDIR) absorption

**Response Time**

Temperature	: 12 minutes to 90% in airflow of 1 m/s (12 minutes to 90% in airflow of 2.2 mph)
RH	: 1 minute to 90% in airflow of 1 m/s (1 minute to 90% in airflow of 2.2 mph)
Co2	: 1 minute to 90% in airflow of 1 m/s (1 minute to 90% in airflow of 2.2 mph)

### Logger

Radio Power	: 1 mW (0 dBm)
Transmission Range	: Approximately 30.5 m line-of-sight (Approximately 100 ft line-of-sight)
Wireless Data Standard	: Bluetooth Low Energy (Bluetooth Smart)
Logger Operating Range	: 0° to 50°C ; 0 to 95% RH (non-condensing) (32° to 122°F ; 0 to 95% RH (non-condensing))
Logging Rate	: 1 second to 18 hours
Logging Modes	: Fixed interval (normal, statistics) or burst
Memory Modes	: Wrap when full or stop when full
Start Modes	: Immediate, push button, date & time, or next interval
Stop Modes	: When memory full, push button, date & time, or after a set logging period
Time Accuracy	: ±1 minute per month at 25°C (±1 minute per month at 77°F)
Power Source	: 4 AA 1.5 Volt batteries (user replaceable) or USB power source (5 V DC, 2 Watts)
Battery Life	: 6 months, typical with logging and sampling intervals of 5 minutes or slower; 6 months or less with logging and sampling intervals faster than 5 minutes while logging CO2. Entering burst logging mode will impact battery life. With app use, battery life can be reduced by remaining connected, excessive readouts, audible alarms, and paging. Visual/audible alarms and other events can have a marginal impact on battery life.
Memory	: 128 KB (84,650 measurements, maximum)
Download Type	: USB 2.0 interface or via Bluetooth Smart
Full Memory Download Time	: 20 seconds via USB; approximately 60 seconds via Bluetooth Smart, may take longer the further the device is from the logger
LCD	: LCD is visible from 0° to 50°C; (LCD is visible from 32° to 122°F;) the LCD may react slowly or go blank in temperatures outside this range
Size	: 7.62 x 12.95 x 4.78 cm (3.0 x 5.1 x 1.88 inches)
Weight	: 267.4 g (9.43 oz)
Environmental Rating	: Ip50