

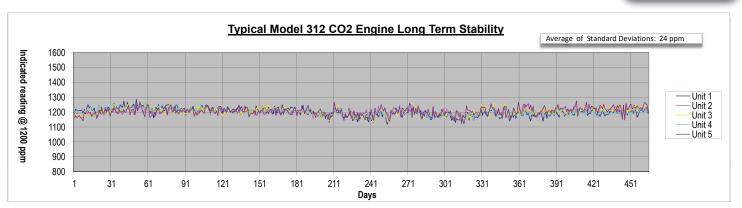
MADE IN USA

- Serious performance for demanding professionals
- Easily integrated OEM module
- Dual Beam accuracy without "self calibration"
- Suitable for control and sensing applications

irSense[™] Model 312 CO₂

The Model 312 is a full featured OEM CO2 sensor designed for integration into instrumentation or appliances that measure or control ppm concentration levels. It's dual detector measurement system maintains long term accuracy (see graph) without relying-on assumptions about the environment being measured. Unlike "self calibrating" sensors which require that sensed concentration levels periodically reach nearly outdoor ambient levels to guarantee long term accuracy the model 312 can maintain its accuracy in continuously high (or low) CO2 concentrations, making it well suited for constant CO2 agricultural and medical applications

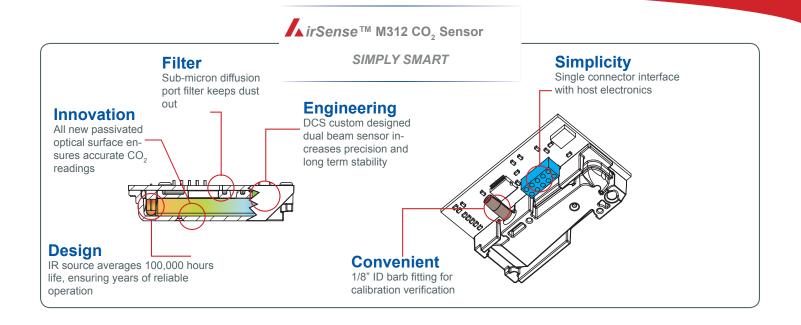
The economical, compact and rugged Model 312 integrates easily into the modern machine environment. It requires only a quarter Watt average power from a single 7 to 15 volt DC supply and communicates digitally with its host via either i2c or SPI interface through a single robust connector. A convenient calibration port is available allowing for easy end-user calibration verification or adjustment to in-house calibration standards. A sub-micron filter over the diffusion port keeps dust out of the sensor.

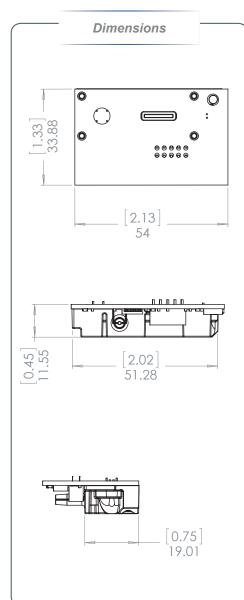


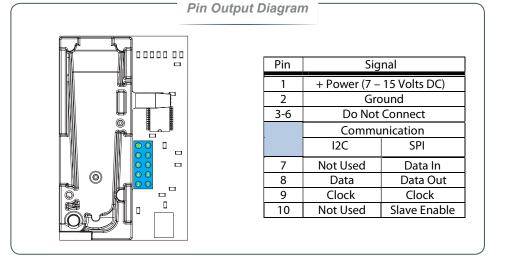












| Parameter | Value |
|---|---|
| Operating Principle | Dual Beam, Non-dispersive infrared (NDIR) |
| Gas Sampling Method | Diffusion port with sub micron filter |
| Measurement Range | 0-2000 ppm (other ranges available) |
| Repeatability | ± 20 ppm CO2 |
| Measurement Accuracy | ± 30 ppm ± 2% of reading |
| Recommended Calibration Check Interval | 5 years |
| Warm Up Time | Less than 1 minute |
| Power Requirements | 7 - 15 Volts DC |
| Operating Temperature Range | 10 - 50° Celsius |
| Operating Humidity Range | 0 - 95% RH, non-condensing |
| Dimensions | 2.13 x 1.33 x 0.45 inches |
| Warranty | 18 months |

