

Non-Dispersive Infrared (NDIR) CO₂ Sensor

Prime Technology's new CO₂ sensor is solid state based, requires no sensing element replacement due to aging, and is easily calibrated on site.

The device has been specifically designed to operate in high barometric pressure environments like that found on the Dry Deck Shelter (DDS).

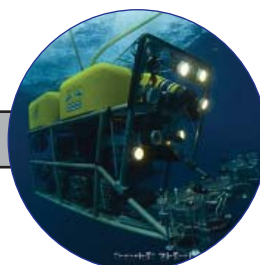
Applications

- Submarines
- Hyperbaric chambers
- Dive Chambers
- ROVs/AUVs
- Other manned vehicles
- ...and many more custom applications

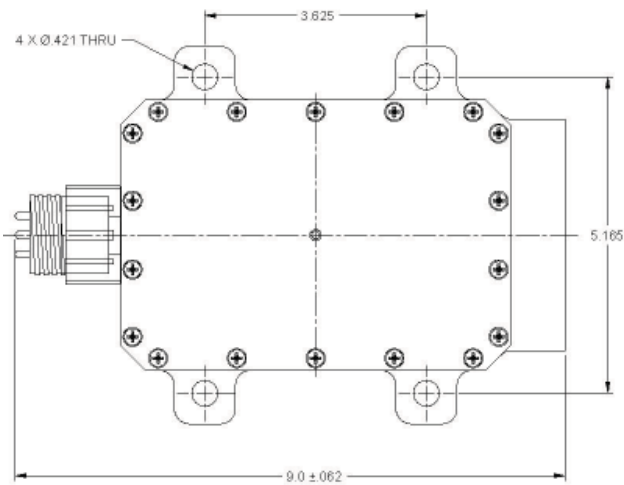


Specifications

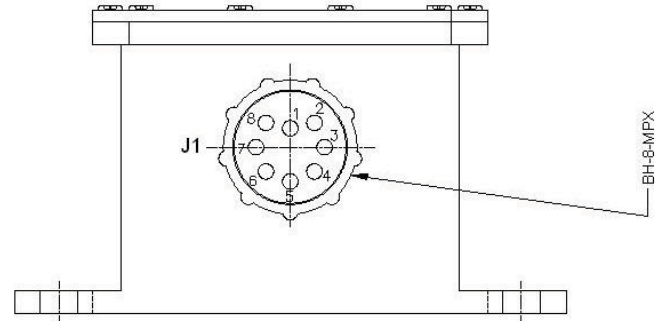
- Technology: Non dispersive infrared absorpton
- Total accuracy better than +/- 10% for CO₂ concentrations of 0.25% to 2.5% at pressures from 1 ATA to 6 ATA
- Measurement range: 0-10%
- Operation Voltage: 5 V DC +/- 5%
- Power Consumption: 1.5 W max.
- Output: Digital RS-232
- Warm up time: Less than 1 minute
- Operating Temperature: 0-50°C
- Relative Humidity: 15% to 100% condensing
- Meets requirements of NAVSEA SS800-AG-MAN-010/P-9290 Rev A ACN I-I, titled "System Certification Procedures and Criteria manual for Deep Submergence Systems"



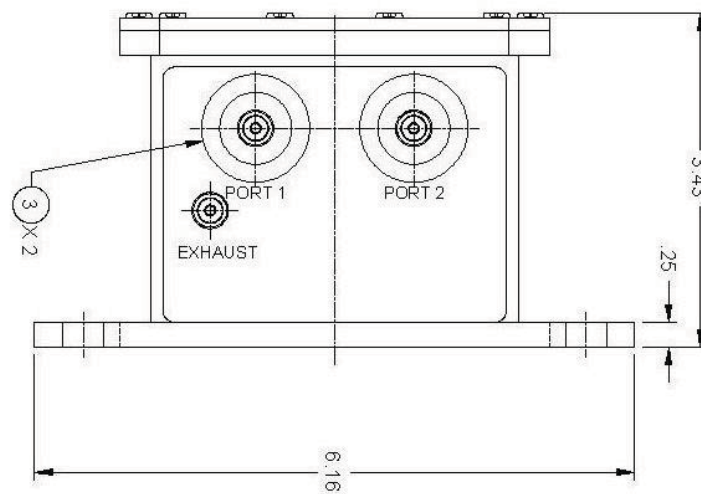
Sensor Drawings & Dimensions



Top View



Side View I



Side View 2



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