

PRI-501 CO₂ H₂O Analyzer

PRI-501 CO₂ H₂O analyzer is designed with dual wavelength infrared (NDIR) technology, onboard temperature and pressure sensors enable real-time environmental condition measurements, providing true concentration readings and reliable measurement of the CO₂ in a wide range of locations. Its unique configuration, extensibility, high quality, long term stability, excellent repeatability and reliable measurement of Carbon Dioxide and Water Vapor measurement makes this a top tier product at a competitive price.

PRI-501 is a rugged, weatherproof mechanical design integrated CO₂ sensor with sophisticated software and wireless module. Comparing with conventional CO₂ H₂O analyzers, PRI-501 has full connective capability with additional sensors like digital temperature sensor, voltage sensor, and many more via RS232.



Key Feature

- ✧ On-board Barometric Pressure Correction @ 800 mbar – 1150 mba
- ✧ Simultaneous synchronous measurement with various sensors
- ✧ Real-time data storage with WIFI connected PAD
- ✧ Field Replaceable IR Source

Specifications

CO ₂ Range	0 ~ 2000 ppm, 5000 ppm, 1%, 5%, 10%, 100%
CO ₂ Accuracy	±2% of range
Zero Stability	2% (over 12 months)
Repeatability@Zero	±0.3%
Repeatability@Span	±1.5%
Zero Drift at Constant Temp.	±2% per year
Zero Drift due to Ambient Temp.	+ 0.1% of range per °C
RH Range	0 ~ 6 %
RH Precision	± 2%
Response Time	T90 = 10 seconds or programmable
Interval	1 s
Sampling Temp.	-20 ~ 45 °C
Sampling Flowrate	1 mL/min@760 Torr
Operating Temp.	-20 ~ 45°C; -30~50°C
Weight	1.2 kg
Power Requirements	10 W; 12~24 V

Manufacturer: PRI-ECO