



The T-I Max AIR features:

- Powerful Cavity Ring-Down Spectroscopy (CRDS) Technology
- Real-time monitoring and high precision detection of CO₂, CH₄, and H₂O to parts per billion (ppb)
- Specificity immune to common interferences
- Automatic reporting of dry mole fraction
- Low cost of ownership and easy operation

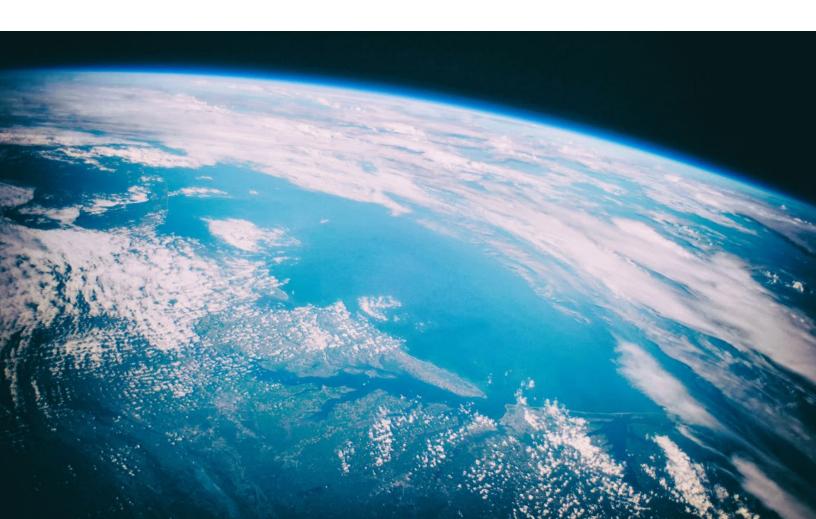
The T-I Max AIR™ greenhouse gas (GHG) Cavity Ring-Down Spectroscopy (CRDS) analyzer for methane, carbon dioxide and water is specifically designed to comply with World Meteorological Organization (WMO) measurement requirements. The T-I Max AIR complies with stringent traceability and precision standards crucial for greenhouse gas inventory assessment. All these benefits makes it an ideal solution for monitoring atmospheric greenhouse gases.

It measures ambient levels of CH_4 , CO_2 and H_2O with excellent reliability, and it can monitor emissions of greenhouse gases from various sources in fixed or mobile applications. The T-I Max AIR is specifically designed for GHG monitoring networks, with a high precision measurement and automatic reporting of dry mole fraction.

The T-I Max AIR integrates into a compact footprint that is both robust and cost-effective. Its resilience to common interferences solidifies its reputation as a consistently reliable choice for atmospheric measurements.

The T-I Max AIR eliminates the need for regular sensor replacement or maintenance. You'll find your system fast to install, exceptionally easy to use, extremely reliable, and effortless to maintain due to its built-in wavelength calibration. The robust design is free of moving parts and has a very low cost of ownership.

Today, our CRDS gas analyzers monitor thousands of critical points for industrial and scientific applications. They serve the world's national metrology institutes, where they function as transfer standards for the qualification of calibration and zero gases.



Specifications

Performance

Operating range:See table belowPrecision (1σ):See table belowAccuracy*:See table obelow

Environmental conditions: 10°C to 40°C, 30% to 80% RH (non-condensing)

Storage temperature: -10°C to 50°C

Gas Handling System and Conditions

Wetted materials: 316L stainless steel and PFA

Gas connections: 1/4" PFA compression fittings inlet & outlet

Inlet pressure: Atmospheric pressure

Outlet pressure: Vacuum (<10 Torr)

Flow rate: ~ 0.5 slpm

Sample gases: Ambient air

Gas temperature: Up to 40°C

Dimensions and Weight

Standard sensor: H × W × D: 8.75 x 19.0 x 26.0 in (222 x 483 x 635

mm) (19" rack-mountable)

Standard sensor weight: 55 lbs (25 kg)

Electrical and Interfaces

Power requirements: 90 – 240 VAC, 50/60 Hz

Power consumption: 300 Watts max.

User interfaces: 10.1" LCD touchscreen, 10/100 Base-T Ethernet, RS-232, RS-485,

Modbus (Optional)

Data storage: Internal or external flash drive

Certification: CE Mark (pending)

Performance:

	Range	Accuracy*	Precision [†] (1σ) – 5 min.	Precision [†] (1 σ) – 24 hrs.
CH ₄	0 – 20 ppm	± 5%	1 ppb	2 ppb
CO ₂	0 – 1000 ppm	± 5%	50 ppb	100 ppb
H ₂ O	0 – 7%	± 5%	30 ppm	100 ppm

^{*} with factory calibration; for GHG monitoring networks the accuracy is dictated by the standard cylinders used for calibration.

[†] at typical ambient levels.



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