



AIM Model 3600

AIR INSTRUMENTS & MEASUREMENTS, LLC

In-Situ NDIR Probe Combustion Analyzer, for Monitoring CO, CO₂ & O₂

**MEASURING any or all:
O₂, RH and/or two IR absorbing
gases, typically CO & CO₂, or HCl,
H₂O, CH₄, HC, NO, N₂O**

The AIM Model 3600 in-situ gas analyzer has been designed to be an inexpensive in-situ probe for combustion optimization, or selected environmental monitoring and control applications. It incorporates the most advanced technology available, and is derived from AIM's popular E6200 EPA compliant NDIR analyzer.

The Model 3600 applies gas filter correlation and dual wavelength ratioing NDIR spectroscopy, with an optional heated zirconia cell for the O₂ measurement; and high temp RH probe for %H₂O, with digital signal processing and communications. Outputs include 4-20 MA analog, fault contact closures, LAN and RS 485 or RS422/232.

The Model 3600 allows measurements typically from ppm levels to % levels, as required. The system is extremely reliable as there are limited moving parts.

The Model 3600 was developed from more than 30 years of practical field in-situ IR gas analysis experience, in over 4,000 installations in 35 countries.

FEATURES

- **In-Situ Probe** – Heated to prevent acid gas condensation, and sealed to prevent dust accumulation.
- **Fast Response Time** - seconds - allows prompt process analysis and adjustments.
- **Sensitivity** - Accurate measurements from ppm to %.
- **Precision** - $\leq 2\%$ of Range
- **Accuracy** - $\leq 2\%$ of Range
- **Stability** - Low drift, temperature stabilized detector
- **EPA Compliant Design** – calibrate directly with cal gas
- **Reliable Design** - The Model 3600 Analyzer features a simple, low-maintenance, rugged design. Long-lived MIL-Spec parts and digital signal processing insure long-term trouble-free operation.

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Bulletin 3600A 8/05

The general design of the *in-situ* probe CEM is that of a single insertion probe which is capable of simultaneously measuring the concentration of multiple gases in the exhaust stream of stationary sources. Additionally, the analyzer has the capability of monitoring other physical parameters of the gas stream such as temperature, pressure, and relative humidity. The probe is mounted on a stream wall using a standard 3 or 4" flange mount, with the electronics and main optical bench located in a protective NEMA 4 enclosure outside of the stack and a probe with a sample cell extending 0.25 to 2 m into the stack. A model is shown below.

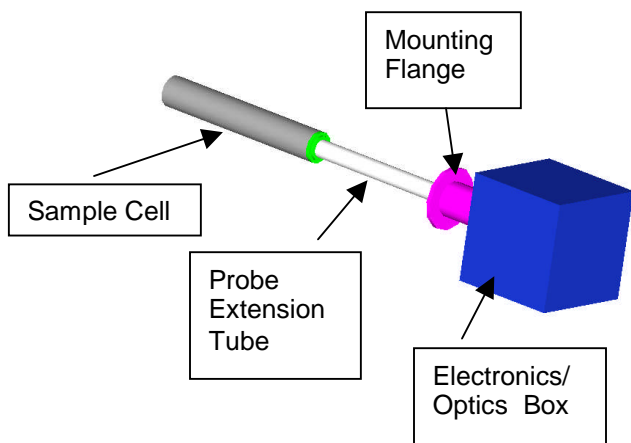


Figure 1. Model of *in-situ* probe CEMs

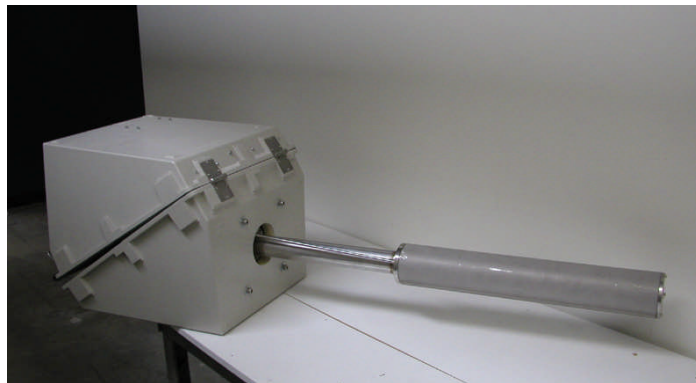


Figure 2. Photo of *in-situ* probe CEMs

Additional AIM products include open-path ambient air analyzers, remote vehicle exhaust analyzers, EPA compliant UV and IR CEMS, and environmental control analyzers.

Model 3600 SPECIFICATIONS

Hardware Design:

- (a) measures O₂, RH and two IR gases, such as CO, and CO₂ at ppm to % concentrations in an insertion probe design, with insertion depths from 0.25m to 2m;
- (b) single-sided mounting on a standard threaded coupling or flange, for fully US EPA compliant (40 CFR Part 60, Appendix B, PS 3, 40 CFR Part 60, Appendix F, and 40 CFR part 75) monitoring;
- (c) operates in flue gas streams at elevated temperatures (Normal: < 400 °C operating temp, < 500 °C max; Higher Temps on special order), with up to 1 g Nm⁻³ dust loading and up to 100 % RH (condensing); and
- (d) includes alarms, 4-20 mA isolated output for each measurement, LAN and RS485 connectivity, integrated or optional remote display/interface, with web-based or modem remote communications

For More Information please contact your Local Rep:

