

CM-1000 COMBUSTION EMISSIONS MONITOR



FEATURES

- * Automatic Calibration of Oxygen Measurement
- * Automatic Zeroing of All gas Measurements
- * Large LED Display
- * Automatic CO Alarm Level
- * Electrochemical O₂ & CO Gas Sensors
- * Optional NO_x Sensor
- * Optional 1-5 VDC Output Channels
- * Wall or Post Mounting, 115 VAC Power

BENEFITS

- * Easy Installation
- * Continuous Indication of Gas Concentrations
- * Low Maintenance Requirements
- * Low Operating Cost
- * Serial Printer Output

SPECIFICATIONS

Input Power: 115VAC, 1 AMP

Enclosure: Painted Steel

Temperature: 0 to 50°C

Measurement Range:

Oxygen: 0 to 21%

Carbon Monoxide: 0 to 1999 ppm

Temperature: 0 to 999° C or F

Nitric Oxide (Nox): 0 to 1999 ppm

Display Resolution:

Oxygen: 0.1%

Carbon Monoxide: 1 ppm

Temperature: 1° C or F


Nitric Oxide: 1 ppm

Dimensions: Measurement/Display Unit:
343mm W x 470mm H x 146mm D
Sample Conditioning Unit:
203mm W x 432mm H x 153mm D

Weights: Measurement/Display Unit:
22 lbs.
Sample Conditioning Unit:
12 lbs.

Outputs: RS-232C Compatible serial port
High CO Alarm contact closure
Three 1 to 5VDC outputs (optional)

Mounting: Wall or Post mount

Approvals: 

DESCRIPTION

The CM-1000 Combustion Emissions Monitor is a combined oxygen and carbon monoxide analyzer designed to provide continuous monitoring of furnaces, boilers or industrial ovens. Measurement of nitric oxide (Nox) can also be supplied as an option. It has an input for a Type K thermocouple to provide a net temperature measurement in degrees Fahrenheit or Celsius. Oxygen and Carbon Monoxide measurements are shown continuously in two large red LED displays. Other measurements are selected for display using the front panel pushbuttons.

A Sample Conditioning Unit cleans the sampled gas to remove particulates and to scrub out corrosive gases. A continuous supply of potable water is filtered by a 5-micron water filter to prevent blockage of the spray nozzle. The clean gas sample at reduced non condensing humidity levels is drawn into the Display/Measurement Unit for analysis. This sample conditioning ensures full operating life of the sensor.

The Measurement/Display Unit is microprocessor controlled for zeroing of all values periodically and automatically. The oxygen measurement calibrates automatically on room air. CO and Nox are calibrated using bottled reference (span) gas. Data-logging to a printer is by connection to the RS-232C compatible serial port. Up to 3 channels of optional 1 to 5VDC analog outputs are also available for driving standard analog recorders.

The standard 18" long probe is 3/4" in diameter and is made of type 316 stainless steel. It permits up to a 14" stack insertion. Longer probes are available.

The Sample Conditioning Unit and the Measurement/Display Unit are housed in rugged painted steel cabinets designed to withstand the normal boiler room or industrial environments.



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This brochure includes general specifications which are subject to change without notice. Ensure a complete understanding of all applicable Federal, State, Provincial and Local Health and Safety laws and regulations before using these products.

Read and understand fully all instructions before using these products