



ALPHA OMEGA
INSTRUMENTS

ENVIRO-SEN

TEMPERATURE CONTROLLED SENSOR ENCLOSURE



The ENVIRO-SEN is a rugged, industrial grade, temperature controlled enclosure designed to maintain optimum internal operating temperatures over a wide range of ambient temperatures. In general, gas sensors are usable over a fairly restricted temperature range. If the temperature limits are exceeded, the sensors may sustain permanent damage. With the ENVIRO-SEN, electrochemical oxygen sensors and non-dispersive infrared carbon dioxide sensors can be operated over an expanded temperature range from as low as -40°F to as high as $+140^{\circ}\text{F}$.

The ENVIRO-SEN is equipped with an industrial grade, thermostatically controlled heater designed to maintain a preset (field adjustable) internal enclosure temperature. For applications where the external skin temperature of the enclosure may reach

as high as $+140^{\circ}\text{F}$, the ENVIRO-SEN can be equipped with an optional, thermostatically controlled vortex cooler designed to cool the internal temperature of the enclosure to maintain optimum conditions. The ENVIRO-SEN features a 14 gauge steel, NEMA 4 enclosure designed for indoor installations as well as for outdoor requirements where exposure to rain and/or snow may be expected.

For applications where condensation of water in the sample gas lines are anticipated, the ENVIRO-SEN can be used to help maintain sample gas temperatures above the dew point temperature of the gas, thus helping to eliminate condensation prior to analysis. Consult the factory for further information.

Mechanical Specifications

Dimensions: 15" H x 12" W x 5.3" D

Dimensions with Optional Vortex Cooler: 19.5" H x 12.7" W x 5.3" D.

Weight: Approximately 25-30 pounds depending on options selected.

Input power: 115 VAC/50-60 Hz.

Sample Gas Connections: 1/4" Stainless steel compression type.

Optional Vortex Cooler: Requires a supply of compressed air. Gas connection 1/8" NPT.

Enclosure Construction:

14 gauge steel rated NEMA 4.

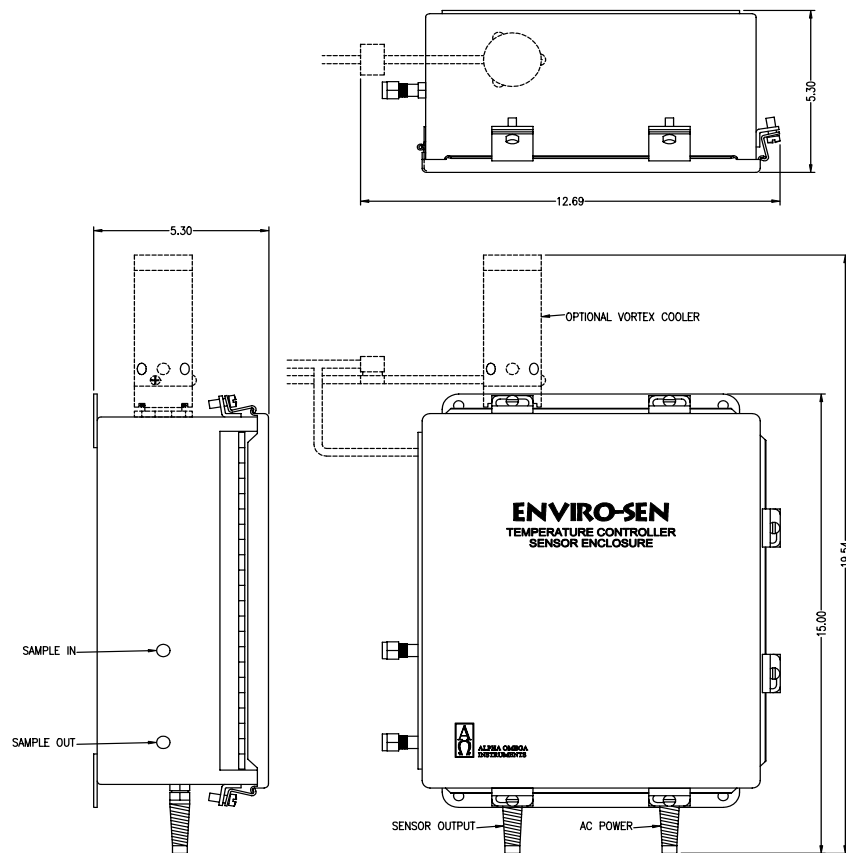
Stainless steel clamps on three sides of cover.

Gasketed front door hinged on left side.

Gray polyester powder coating inside and out.

Temperature Ranges: -40°F to +140°F (Internal enclosure temperatures of +60°F will be maintained with outside temperatures as low as -40°F. Case cooling recommended when ambient temperatures exceed +100°F. Maximum ambient temperature allowable is +140°F)

Dimensions



ALL DIMENSIONS SHOWN IN INCHES.

Specifications are subject to change without notice.



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