

ESH-A Remote Sensor



The ESH-A Remote Sensor offers flexible location monitoring of combustible or PID TVOC gases in non-hazardous, non-explosion rated, commercial and light industrial applications. It communicates with a controller or transmitter using current loop into a 100 ohm load or a voltage signal of 0.40 to 2 volts. It can be located at a maximum distance of 200 meters from the controller or transmitter.

The ESH-A Remote Sensor comes in a standard water / dust tight, corrosion resistant ABS / polycarbonate enclosure with a hinged, secure door and is designed to protect the sensor and provide easy mounting components. An optional splash guard may be installed to further protect the remote sensor in water spray or washdown applications.

The mounting height of the ESH-A Remote Sensor depends on the gas being monitored. A gas that is heavier than air should be detected 6 inches from the floor and a gas that is lighter should be detected on or near the ceiling. A gas that has the same density as air should be detected in the "breathing zone", where most human breathing takes place, which is 1 to 2 m (4 to 6 ft) from the floor.

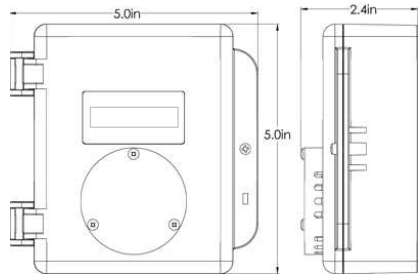
KEY FEATURES

- » Allows remote location monitoring of combustible or PID TVOC gases.
- » Current or voltage output signal
- » Communicates with CETC's controllers and transmitters
- » Easy to install and maintain
- » Standard water / dust tight, corrosion resistant enclosure (drip proof); IP54 rated with optional splash guard installed. Keeps sensor dry, clean and protected.

APPLICATIONS

- » Parking Garages
- » Equipment/ Machinery Rooms
- » Manufacturing Plants
- » Power Generation Plants
- » Airport Maintenance Hangers
- » ... and many more

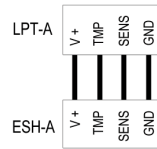
TECHNICAL DRAWING



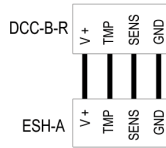
Note: Drawings above are shown with an optional splash guard. Without splash guard, thickness of unit is 2.1" (53 mm).

WIRING

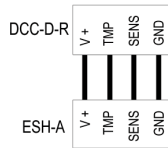
ESH-A wiring to LPT-A



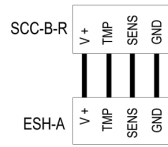
ESH-A wiring to DCC-B-R



ESH-A wiring to DCC-D-R



ESH-A wiring to SCC-B-R





ESH-A Remote Sensor

TECHNICAL SPECIFICATIONS

GAS TYPE

Combustible (catalytic), Jet Fuel (infrared), TVOC (PID)

MECHANICAL

Enclosure ABS / Polycarbonate, IP54 rated optional splash guard installed. Copper coated interior to reduce RF interference.

Weight 340 g (12 oz)

Size 5.0" x 5.0" x 2.1"
(127 mm x 127 mm x 53mm)

ENVIRONMENTAL

Operating Temperature -20°C to 40°C (-4°F to 104°F)

Humidity 15 - 90% RH non-condensing

ELECTRICAL

Power Requirements 12-24VDC, 1W, Class 2

Output current or voltage

REMOTE SENSOR MOUNTING HEIGHTS

On or near the ceiling Hydrogen (H₂), Methane (CH₄)
TVOC (target gas dependant)

6 inches above floor Propane (C₃H₈)
TVOC (target gas dependant)

COMPATIBLE CETCI PRODUCTS

Transmitters LPT-A Analog (single channel)
LPT-P Car Park Digital (1, 2, or 3 channel)
LPT-M Modbus® (1, 2, or 3 channel)
LPT-B BACnet® (1, 2, or 3 channel)

Controllers SCC Self Contained (single or dual channel)
DCC Dual Channel (single or dual channel)

PRODUCT CODES

ESH-A- Remote Catalytic Sensors Lifespan

ESH-A-CH2-100 Hydrogen (H₂) sensor (0 - 100% LEL) 5 yrs

ESH-A-CCH4-100 Methane (CH₄) sensor (0 - 100% LEL) 5 yrs

ESH-A-CC3H8-100 Propane (C₃H₈) sensor (0 - 100% LEL) 5 yrs

ESH-A- Remote Jet Fuel (Infrared) Sensor Lifespan

ESH-A-JET Propane (C₃H₈) sensor (0 - 100% LEL) 8 yrs

ESH-A Remote TVOCs (PID) Sensors Lifespan

ESH-A-SPL TVOC PID sensor (0 - 30 ppm) **

ESH-A-SPH TVOC PID sensor (0 - 300 ppm) **

** usage and application dependant

OPTIONS (Factory installed) Add at the end of the "Part Number" above.

S Splash Guard

ACCESSORIES

CET-5GC Calibration clip for splash guard

CET-715A-CK1 Calibration Kit for 17, 34, 58, 74, 100 L cylinders,
0.5 LPM flow regulator & adapter to fit 17 L
cylinder

PID-KITA Maintenance kit for cleaning PID sensor bulb

SCS-8000-RSG Metal protective guard, small, 16 gauge,
galvanized metal guards for transmitters and/or
ESH-A Remote Transmitter, as required.

CERTIFICATION

Conforms to: CSA-C22.2 No. 205-12, UL508 (Edition 17):2007

Conforms to: EMC Directive 2004/108/EC,
EN 50270:2006, Type 1, EN61010

Conforms to: FCC. This device complies with Part 15 of the FCC Rules.



BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). Modbus® is a registered trademark of Gould Inc. Corporation.