Sensit PMD



History

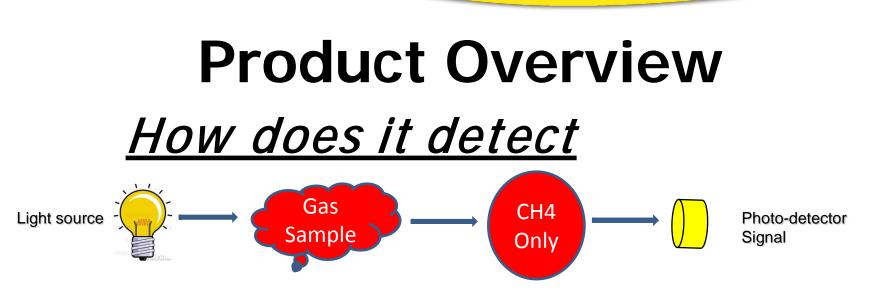


FIND IT with SENS

Technologies



- Begun 1998
- Open path hand held to closed path initiated in ~2004
- Research conducted through Carnegie-Mellon and several members of Operational Technology Development, Inc. (OTD)
- Sensit Technologies began commercialization project 2009



PMD uses an infrared a light source that is of the same frequency that methane gas will absorb.

A specialized filter allows only the illuminated methane molecules to be detected.

The number of methane molecules detected through the filter by photo-detector is measured and given to the operator in the form of a gas reading.



Product overview

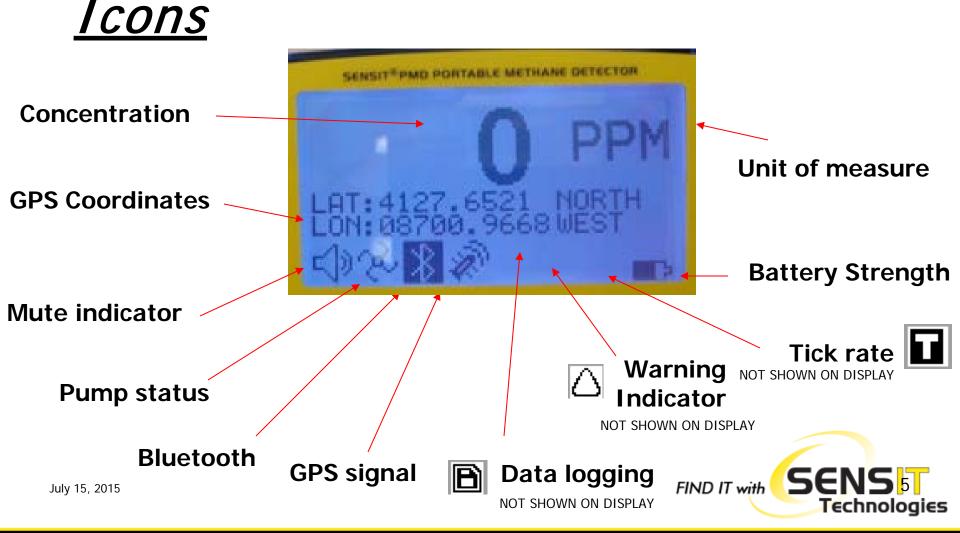
<u>Housing</u>

- Aluminum front for heat removal
- Easy access filter
- Auxiliary pump connection (vehicle app)





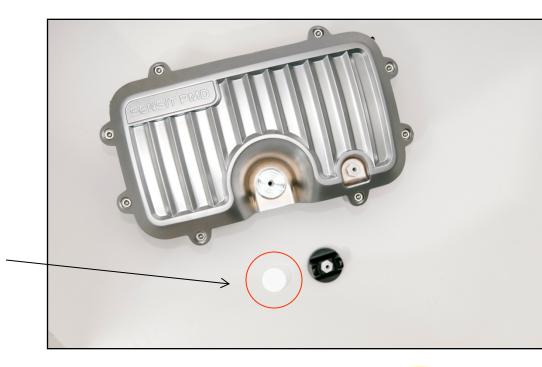
User Interface



Product overview

<u>Housing</u>

- Easy access filter
 - Replacement disc
 - Adhesive side onto aluminum mount





Sensit VMD



Sensit VMD Vehicle Methane Detector



Description

- Bumper mount open path IR methane detector
- Detects ~1ppm
- Detects 10ppm @ 25mph

Features

- Adjustable path length
- Bluetooth data streaming
- Use for car, truck, or ATV
- Extremely rugged design

FIND IT with SENS

Technologies

• Easy to install

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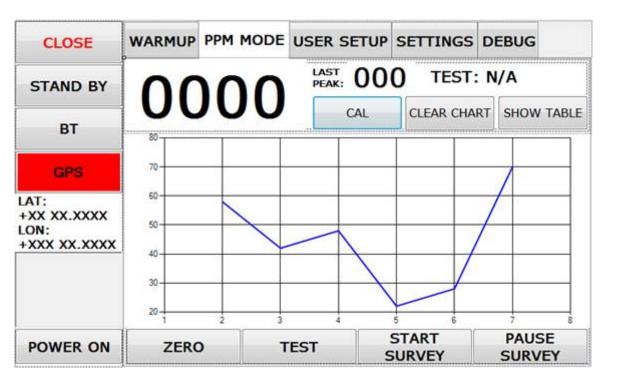
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FIND IT with SENS

Technologies

Sensit VMD Vehicle Methane Detector



Water Resistant Computer

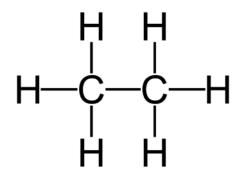
- Touch screen operation
- Bluetooth data transfer
- GPS data recording
- Real time data streaming
- Adjustable alarms
- Ideal for all terrain vehicle use in all weather conditions



Sensit IRed



Ethane



- \succ Ethane is the 2nd main component of natural gas
- ➤ Typically 1–3% of natural gas concentration
- > Primary alkane with methane, propane, butane
- Not found in naturally occurring methane (swamp gas, sewer gas, decomposition)





Sensit IRed

Infrared Ethane Detector

- > Power on
- > Allow zeroing
- Perform measurement
- Read results in actual ethane concentration
- Store and print results
- Field calibrate Manual or using Smart-Cal
- GPS data collection available







Sensit IRed

Infrared Ethane Detector

- ➢ GTI/OTD Project
- Distinguish pipeline gas from naturally occurring methane
- Detects 250ppb ethane in as little as 20ppm methane sample
- Detection method-Infrared Absorption Spectroscopy
- Analyzing type instrument
- Results from turn on to finish in less than 30 minutes

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