

OMD™ Optical Methane Detector

Increase Speed, Accuracy and Productivity

The Optical Methane Detector (OMD™) was specifically designed for the mobile inspection of buried natural gas distribution, transmission and gathering pipelines. This field proven technology combines sensitivity, selectivity and speed through the use of optics and electronics.

Field experience has proven that given adequate survey and meteorological conditions the OMD increases productivity 50% or more over current mobile survey. A contributing factor to the increased productivity is the instantaneous response to leak indications versus the time delay present with current flame-ionization technologies. Much of the maintenance associated with flame-ionization units, including

moving parts, external fuel gases, outside sources of dust, dirt, moisture and water ingress, is eliminated with the OMD.

The OMD is mounted on the front of a survey vehicle. It employs an infrared (IR) light beam that shines across the front of the vehicle. An optical filter in front of the detector transmits methane IR wavelengths from the light source. In the absence of methane, these wavelengths are unaffected and produce a steady output signal from the detector. The presence of methane causes a signal, audio and visual, which is transmitted to the display in analog and digital form inside the vehicle. The OMD can detect leak indications in concentrations of less than 1 part per million (ppm) at 10,000 measurements per second.

The OMD operates reliably under a variety of environmental conditions including inclement weather, wind and temperatures from -20° F to +110° F. The OMD's sensitivity is not affected by small fluctuations in the light beam caused by reasonable amounts of dust, dirt, water or snow. An internal calibration check cell is



included so the operator can verify proper operation from the vehicle cab at any time before, during or after the survey, as well as alerting the operator if conditions are not optimal.

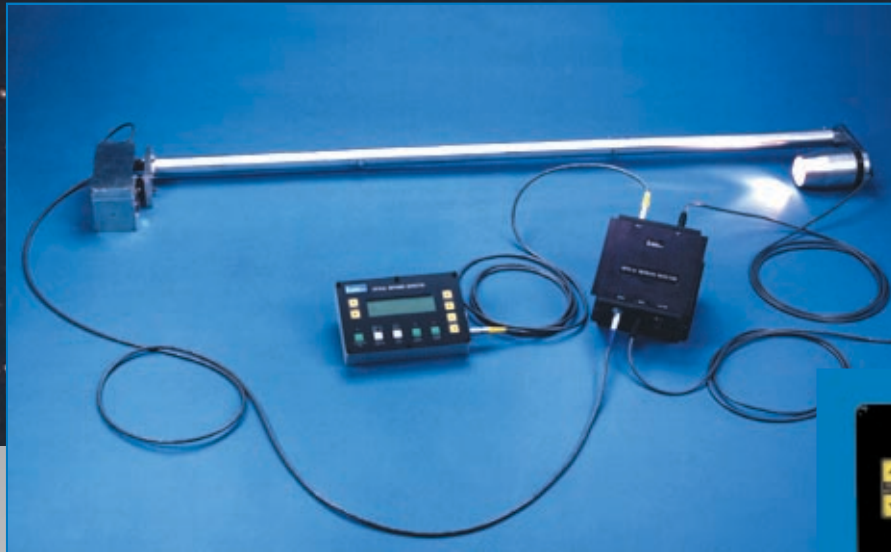
Installation on various types of survey vehicles is very simple and can normally be accomplished in a matter of hours. All cables are provided with the OMD including the power cable to operate the unit from the survey vehicle's 12 volt battery. An RS232 port is available whereby a personal computer may be connected to acquire and save survey data.

The OMD was designed and tested in a Gas Technology Institute (GTI) program.



Visit our website at www.heathus.com for customer testimonials and comparison documentation.

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System Specifications

Configuration:	Double ended
Sensitivity:	1 PPM / meter CH ₄ at 25 MPH
Measurement Range:	1 to 200 PPM
Display Ranges:	10, 30 and 90 PPM
Self Test:	During boot up
Calibration Test:	Via operator, self contained
Calibration:	Via RS-232 through software
Base Line Compensation:	Via RS-232 through software
Display:	Backlit 2" x 6" graphics LCD
Operator Interface:	Sealed membrane switch overlay
Operator Alarms:	Audible with adjustable set point
Signal:	High pitch increases with concentration
Error:	Low pitch for Warm up, Low Light, Failure & Battery Low
System Power:	60 watts @ 12 VDC
System Voltage:	10-16 VDC

System Weight:	
External Sub-Systems:	17 pounds
Power Box:	6 pounds
Cables:	4 pounds
Internal Display:	3 pounds
Mechanical Mounting:	Strut bracket mount
Installation Time:	2 hours (typical)
External Housing Rating:	NEMA 35 and IP 54
Display Housing Rating:	Spill proof
External Sub-System Materials:	Aluminum and plastic
Environmental PCB Control:	Conformal PCB coating
Operating Temperature Range:	-22 °F to 122 °F
Operating Humidity Range:	5 to 100% RH

HOW TO ORDER

Part No. 2500300 - OMD, Complete, 51" Crossbar
 Part No. 2500400 - OMD, Complete, 63" Crossbar
 Part No. 100132-0 - OMD Display Mount



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