VEHICLE-BASED GAS LEAK DETECTION

LEADERS IN GAS DETECTION

Since 1977

SELMA Roof

Features:

- Simple operation and data processing
- Detects leaks in front and to the side of the driving path
- Detection distance — up to 80 m
- Max velocity — 60 km/h
- Methane sensitivity — 5 ppm
- Installation on any type of vehicle

SELMA mini (Street Evaluating Laser Methane Assessment) is one of the most modern gas leak detector device. The main application is the Leak de-tection in gas pipelines, compressor stations and other potential sources of methane emissions. The principle of SELMA is a pulsating infrared laser.

Roof: infrared laser beam can directed on each item / location in a distance from up to 80 meters. If a methane cloud is crossing the laser beam at any point between the system and the re ection object the discharged amount is recognised and will be measured.

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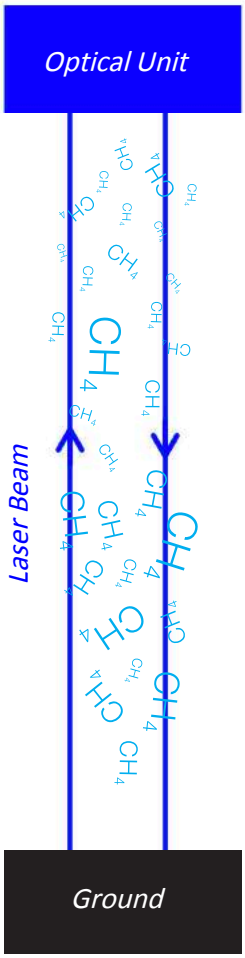
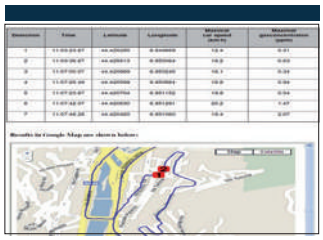
Specifications

SELMA Roof

Target Gas	Methane (CH_4) and methane-containing gases (natural gas and similar)
Sensitivity	5 ppm×m (Roof System)
Detection Range	0 to 99999 ppm×m (Roof System)
Detection Distance	80 m (75% reflectivity)
Response Time	0.1 seconds (Roof System)
Operating Temperature Range	–10°C ... +50°C
Pump Flowrate	max 1080 l/h
Target Position	GPS coordinates
Data Output	Pergam Software
Power Supply	12 V
Max Veliocity	60 km/h
Measurement Time	0.1 sec
Laser Safety Class	Guide light (green laser light): Class 3R Measurement light (infrared laser light): Class 1
Dimensions	197 (D) × 316 (H) mm (Roof System)
Weight	6.5 kg (Roof System)
Rotation Angle	Horizontal 360° | Vertical: 25° > +90°
Video Camera	Full HD (1920x1080)



Roof System



Pergam Software

Principle of Remote Gas Detection

SELMA is based on the utilisation of laser absorption spectrophoto-meter of methane gas for gas mesurement.

The system detects natural gas leaks by emitting a laser at a particular wavelength and analyzing the light reflection from an object to determine how much was absorbed by the methane in the natural gas.

The measured gas volume is expressed by methane column density (ppm × m): methane density (ppm) multiplied by laser length (m).

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