

SELMA Bumper

Street Evaluating Laser Methane Assessment

- Unrivalled sensitivity of 0.1 ppm
- Operates in automatic mode
- Effective for patrolling aboveground and underground gas pipelines
- Operates without loss of quality at a speed of up to 60 km/h
- Ideal for monitoring underground gas storages
- Can be mounted on any vehicle

OVERVIEW

The Selma Bumper is a diagnostic tool for the detection of gas leakages in urban areas. The system detects gas leaks by simply driving down the street past the inspection area, even when maintaining a normal driving speed. With two independent laser detectors, the Selma detects leaks in front and at the side of the driving path.

The Selma Bumper is highly sensitive and utilises a simple operation process and data assessment. It is also suitable for most vehicles.

APPLICATIONS

- Inspection of high and low pressure gas distribution networks
- Detects very small leakages
- Based on a pulsed IR laser system
- Detects leakages by utilising two independent laser detection systems: Bumper laser for driveway leak inspection
- GPS registration comes as standard with the SELMA system



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Specifications

Average operating speed	30 km/h
Maximum operating speed	50 km/h
Max. distance for leak detection	N/A
Survey mode	N/A
Green Laser Power	N/A
Laser Power (Class 1M)	10 mW
Sensitivity (Sideways)	20 ppm*m
Sensitivity (Bumper System)	0.1ppm
Measurement time	0.04 sec, 0.2 sec (simultaneously)
Selectivity to other gases	<(1/104)
Power Supply	12 V, 240 W
Operating temperature range	-10 – +50°C
Laser Wavelength	1.65 μm
Laser Pulse Duration	1 msec
Laser Wavelength Scan Range during Pulse	3*10 μm ⁻⁴
Parabolic Mirror Diameter	N/A
Minimum detectable radiation power	2pW
Analog-digital converter	333 kHz, 16 bits
Dimensions optical unit	174 cm x 16 cm x 9cm
Weight of components: Optical Unit	15kg
Weight of components: Electronical Unit	8kg

