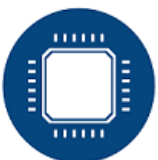




## NG10

### NG10 TDLAS LASER DETECTOR

The NG10 Laser Gas Detector with Suction Pump is ideal for detecting gas leaks in locations such as expansion tanks, underground pipelines and valve wells. The device is characterized by excellent response time, high sensitivity and longer life.



NEW TECH  
HOLDING



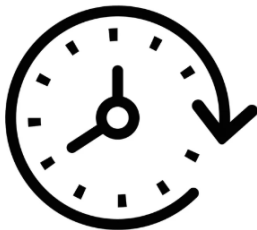
## PRECISION

The use of advanced laser detection technology (TDLAS) resulted in unrivaled accuracy (0.5ppm) over the entire measurement range.



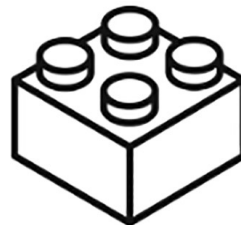
## VITALITY

Large battery capacity and software optimization allow for over 10 hours of operation on a single charge



## RESPONSE TIME

Efficient pump and TDLAS technology allowed for excellent gas response time (0.1s)



## MODULARITY

The detector, thanks to its small size and weight, is easily mounted to any type of passenger and motorcycle vehicles, but also remains comfortable to move with on foot.

## TDLAS TECHNOLOGY

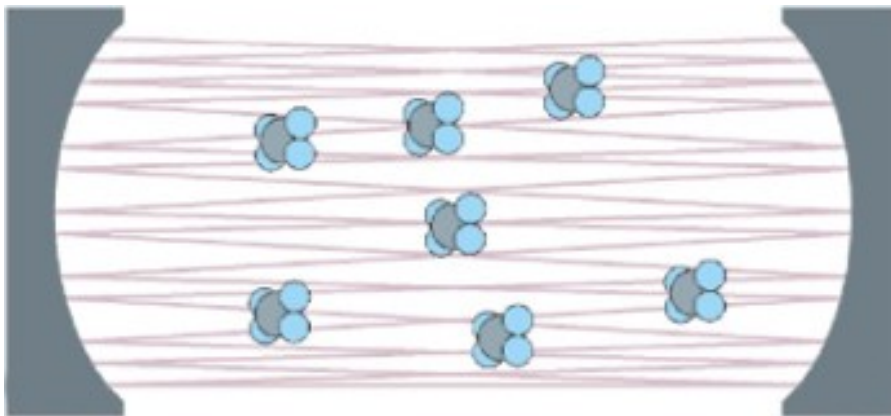
"Methane molecules absorb light at specific wavelengths"

- Principle of molecular absorption spectroscopy

"There is a linear relationship between the concentration and absorbance of a solution, which makes it possible to calculate the concentration of a solution by measuring its absorbance."

- Lambert-Beer Law

According to the above laws of physics, a beam of a specific wavelength can be passed through a gas, and depending on how weakened the beam is, the concentration of methane in the transmitted air mass can be measured.



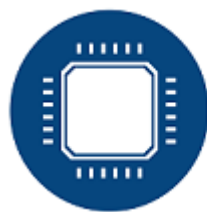
The use of a multi-reflection detection chamber, allowing the laser to pass through the measured gas multiple times, significantly increased the accuracy of the measurement.

## MOUNTING OPTIONS



**TECHNICAL SPECIFICATION:**

<b>Model:</b>	NG10	<b>Gas Detected:</b>	Methane CH <sub>4</sub>
<b>Technology:</b>	TDLAS	<b>Units:</b>	ppm, %LEL, %Vol
<b>Sensitivity:</b>	0.5ppm	<b>ATEX certified:</b>	II 3G Ex ic IIA T3 Gc
<b>Response Time:</b>	0.1 seconds	<b>Permissible temperature:</b>	-20°C – 50°C
<b>Detection Range:</b>	0 – 100% Vol	<b>Permissible humidity:</b>	<98%RH, non-condensing
<b>Protection Level:</b>	IP66	<b>Dimensions and weight:</b>	208x78x53mm 1 kg



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