

TRACER ETHANE

Vehicle Mounted Natural Gas Leak Detection System



The world's first detection **ethane** and **methane** at the same time

- Ultra-fine gas detection by 1 billion ppb measurement
- Detect leak points up to 150 m at 80 km / h
- Real-time data implementation and transmission with GPS and professional software

MID-Infrared

Mid-infrared laser absorption spectroscopy Ultra-precise detection possible for technical purposes.
And no calibration required



Ultrasonic Weather Vane
High Performance Sensor
Advanced software
Accurate detection

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Vehicle Mounted Natural Gas Leak Detection System

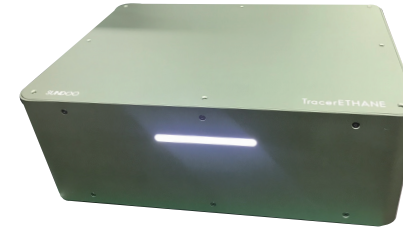


TRACER ETHANE is a mid-infrared laser absorption spectroscopy technology, and has developed the hardware and software equipped with the core technology of this sensor from Sundoo electronics. It is about 3000 times more precise and sensitive vehicle detection equipment than existing vehicle detection equipment. It is the world's first and most sensitive vehicle gas detection system that detects one million million (ppb) of ultra fine gas far exceeding the existing minute gas (ppm), which is not only methane but also ethane. In addition, gas leak detection can be detected from a long distance up to 150m at a high speed of up to 80km, and work is performed very quickly and quickly in large areas, resulting in excellent work efficiency. All data values (measured value, measuring position, measuring time, mantissa leaking point and gas leaking quantity, etc.) are saved and transmitted in real time with the field map by linking with GPS and professional software.



[Graphic Detection Visualization System]

Components



Tracer Ethane Analyzer
(Methane/Ethane)



Sonic Anemometer
(Wind Speed/Direction)



GPS
(Location)

division	The details
Sensitivity	Methane: 1 ppb / s, ethane 1 ppb / s
Measuring distance	Up to 150m
Measuring speed	Up to 80 km
Response time	Less than 1 second
Sensor method	Mid-Infrared Laser Absorption Spectroscopy (Mid-Infrared)
Sensor calibration	Unnecessary
Selective detection	Reacts only in methane and ethane
Communication	Tablet connection using GPS and wireless internet
Device power	Automotive DC 12V Low Power Consumption
Temperature range (inside vehicle)	5 °C ~ 40 °C

[Tracer Ethane Specification]