Product Specification Picarro Handheld

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Introduction

The Picarro Handheld is a ground-up rethink of the handheld methane detector. Using diffusion sampling and a fast-response, high-sensitivity OPLS (Open Path Laser Spectroscopy) sensor, (Figure 1) the Picarro Handheld is shown to significantly improve the detection performance for all leaks targeted by leak survey technicians on a daily basis.

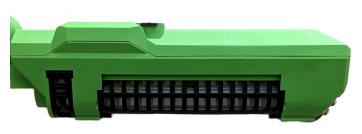


Figure 1 The unit uses diffusion sampling and an OPLS sensor.

The Handheld incorporates a realtime Ethane sensor, enabling real-time source discrimination and virtually eliminating the need to send gas samples to an off-site laboratory for ethane content characterization.

As show in Figure 2, the Handheld is lightweight at just 3.4lbs, and features provisions for shoulder or chest straps to meet the individual user's ergonomic requirements. It can be practically used for all day shifts while minimizing physical stress or strain. The on-board Li-lon battery allows for a minimum of 8 hours of continuous operation, and recharges at a higher rate.



Figure 2 The Picarro Handheld is lightweight, only 3.4 lbs.

Seamless Integration

The Picarro Handheld integrates seamlessly with Picarro's P-Cubed Mobile App, (Figure 3) which enables data collection and transfer from the individual Handheld into the P-Cubed Cloud. When paired with our Mobile App, the Picarro Handheld transmits Methane, Ethane, and GPS/GNSS/RTK location data to the P-Cubed Cloud to enable survey quality control, visually auditable LISA and Gap investigation records, investigation efficiency metrics displayed via P-Cubed Dashboards, and more.

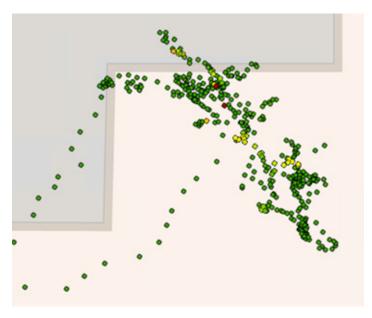


Figure 3 Example data collection from Picarro Handheld

Detection Range	1.80ppm to 5,000ppm CH4 (Methane) 50ppb (0.050ppm) to 200ppm C2H6 (Ethane)
Resolution	<25ppm: 1ppb >25ppm: 1ppm
Accuracy	+/- 5% of reading
Precision	60ppb @ 2ppm CH4 (Methane) 15ppb @ 0ppm C2H6 (Ethane) (2ppm dry sample @ 1.5LPM)
Measurement Speed	User-Selectable (1, 2, 4, 5, 10hz)
Response Time	<0.5 seconds
Operating Conditions	IP43 rated -10°C to 45°C, 0-95% RH (non-condensing)
Onboard Memory	Integrated flash memory
Outputs	Bluetooth (connects to Picarro Mobile App) USB port (direct data extraction)
Weight	3.4lbs
Battery Specifications	Self-contained Lithium-Ion battery pack Minimum 8 hours per full charge
Controls	Physical on/off button Touch-screen menus Picarro Mobile App menu controls

Detailed Specifications

*Specifications subject to change