



PRODUCT SUMMARY

Portalevel® ADVANCED is Coltraco Ultrasonics’ latest innovation in ultrasonic liquid level measurement, offering high-accuracy performance with additional advanced features for more detailed analysis. Portalevel® ADVANCED quickly and accurately determines the liquid level in a wide range of liquefied fire suppression agents, including CO2, FM200™, and NOVEC™1230. The device features a high-contrast OLED display that clearly indicates the cylinder contents phase, showing either “GAS” or “LIQUID.”

The integrated signal viewer provides a real-time, oscilloscope-like display of the ultrasound signal, allowing users to observe the signal’s response and visually confirm phase transitions. This added clarity supports more precise identification of the liquid level, making measurements quicker and more reliable, delivering accuracy within ±1% of the true liquid level.

With over 30 years of experience in developing ultrasonic liquid level indicators, Coltraco Ultrasonics is a leader in this field. Our instruments are crafted to the highest standards in the UK using premium materials, offering superior value and reliability, backed by our unique position in research and development.

Key Features:

- **Signal Viewer:** Provides visual feedback of the ultrasound signal, increasing confidence in measurements.
- **Optimised Rectangular Sensor:** Enhanced design directs ultrasound more effectively, improving accuracy and measurement efficiency.
- **Advanced Signal Processing:** New algorithms provide clearer differentiation between gas and liquid phases, ensuring precise results.
- **Faster Testing:** Simplified procedure with clear GAS/LIQUID indication for quicker operation, reducing testing time.
- **Extended Battery Life:** 24 hours (est.) of continuous use.

Advantages:

- **Portable & Versatile:** Quickly measures cylinders of various sizes and types.
- **Non-invasive:** No system downtime, ensuring safe and continuous operation.
- **Rapid Measurement:** Provides results in under 30 seconds—significantly faster than traditional methods like weighing.
- **Long Battery Life:** 24 hours of use on AAA batteries with easy replacement.
- **Clear Display:** The intuitive OLED screen clearly shows the cylinder contents, whether “GAS” or “LIQUID.”
- **Lifetime Support:** Coltraco Ultrasonics provides continuous technical support throughout the product’s lifecycle.

SPECIFICATIONS

MAIN UNIT DIMENSIONS	120mm (L) x 78mm (W) x 27mm (D)
WEIGHT	~300g
CYLINDER COMPATIBILITY	Works on most single-skinned cylinders, operational range may vary depending on the cylinder contents. Typical cylinder diameter: 110mm – 700mm
AGENT TYPES	Carbon Dioxide (CO ₂), Halon fire agents (Halon 1211, Halon 1301, Halon 2402), FE-13™, FE-25™, Clean Agents (Novec™ 1230, FM200™)
ACCURACY	± 1mm
DISPLAY	1.54" 128x64 OLED
ADDITIONAL FEATURES	• Displays cylinder phase “GAS” or “LIQUID”. • Can be used alongside the Portasteele® CALCULATOR (sold separately) to quickly convert the liquid level to the agent weight. • Comes with Infrared thermometer to allow an operator to measure the cylinder temperature at the time of measurement.
POWER SUPPLY	4x LR03 (AAA) cells for up to 24 hours of operation.
OPERATING TEMPERATURE	• Main Unit: -10°C to +65°C • Sensor: -10°C to +65°C
SENSOR	Piezoelectric crystal sensor made from stainless steel. Connects via a 1m BNC coaxial cable.
CERTIFICATIONS	• CE, UKCA • Coltraco is ISO 9001:2015 and ISO 14001 approved
WARRANTY	Main Unit: 3 years, Sensors: 1 year Lifetime customer support
PACKAGE CONTENTS	• Portalevel® Main Unit • Handheld Ultrasonic Sensor • Infrared Thermometer • 2x Water-based Ultrasonic Couplant Gel • User Manual • Calibration Certificate • Robust Carrying Case

