

P/N: 2290334-IS Hazardous Zone (Zone 1) Approved Ultrasonic Liquid Level Indicator



PRODUCT SUMMARY

The Portalevel® Intrinsicly Safe is a specialist, intrinsically safe ultrasonic liquid level indicator. It is designed for non-invasively monitoring the contents of fire suppression systems in hazardous, explosive environments. This device is the ideal tool for testing cylinder contents in ATEX Zone 1 classified areas.

The Portalevel® Intrinsicly Safe is approved for use in Zone 1, II 2 G Ex ib IIA T4 Gb standards, the Portalevel® Intrinsicly Safe can be used in even the most sensitive of environments. It can be used to locate the liquid level in any liquified fire suppression system, including CO₂, FM200®, NOVEC™ 1230, when such systems are installed in hazardous zones.

In order for the device to be hazardous zone approved, the Portalevel® Intrinsicly Safe generates ultrasound at approved levels. To complement this, we developed and adapted our liquid level detection algorithms to offer three different modes for finding liquid levels, including an intelligent mode (iCal).

The Portalevel® Intrinsicly Safe also has four different power settings, for larger or more corroded cylinders. This, in combination with the three different modes, allows the unit to be used on a wide variety of cylinder types and agents, with minimal user input. This was critical in allowing us to maintain our high standards of accuracy (±1.5mm of the true level) and ease of use in a handheld, ATEX Zone 1 approved package.

Designed with safety in mind, the Portalevel® Intrinsicly Safe is perfect for areas where volatile or explosive gases, vapours or mists are likely to be present in the air (IECEx Zone 1), such as: LNG Tankers, Offshore platforms with flammable gases, Chemical plants, Gas plants and facilities. Coltraco Ultrasonics' range of Ultrasonic Liquid Level indicators has been developed for over 30 years and we are proud leaders in this field. We strive to offer the highest quality instruments, built with exceptional quality materials in the UK and remain competitively priced in the market worldwide through our unique R&D position.

SPECIFICATIONS

MAIN UNIT DIMENSIONS	215mm (L) x 82mm (W) x 30mm (D)
WEIGHT	480g (with batteries)
ACCURACY	+/- 1.5mm (1/8") of true liquid level
SENSOR	<ul style="list-style-type: none"> Hazardous Zone Approved – 1.0 MHz, 34mm diameter head contained within a magnetised sensor applicator Connected by 1.0m length BNC cable
POWER SUPPLY	<ul style="list-style-type: none"> 4 x Energizer L91 AA Batteries (only permitted type) Two sets of batteries are provided with the unit
DISPLAY	LCD backlit display (28mm x 55mm), membrane control operated
EX MARKING	II 2 G Ex ib IIA T4 Gb
OPERATING TEMPERATURE	-20°C to +40°C / -4°F to 104°F
CERTIFICATIONS	<ul style="list-style-type: none"> CE ATEX Coltraco is ISO 9001:2015 and ISO 14001 approved
WARRANTY	Main Unit: 3 years, Sensors: 1 year Lifetime customer support
PACKAGE CONTENTS	<ul style="list-style-type: none"> 1 x Portalevel® IS Main Unit 1 x Hazardous zone approved sensor 8 x L91 AA batteries 1 x Infrared thermometer (Non-EX rated included as optional accessory) 1 x User Manual 1 x Robust Carrying Case 1 x Ultrasonic Couplant

FEATURES & BENEFITS

- ❖ Quick and easy liquid level detection with clear visual display
- ❖ For Zone 1 Hazardous Environments
- ❖ No dismantling of the fire system is required, no downtime to the system
- ❖ Saves time and labour compared to traditional methods such as weighing
- ❖ Minimise risk to personnel (i.e. no back injuries by heavy lifting)
- ❖ Proven liquid level detection ability based on the UL-listed technology adopted from our sister instrument
- ❖ Easy to use and suitable for all level of skills from technicians to chief engineers