

PLI Plus

Ultrasonic Liquid Level Indicator



MINISTRY OF DEFENCE



WATCH THE VIDEO



The **PLI Plus** Portable Liquid Level gauge is designed to offer a simple, accurate, rapid and reliable method of determining the liquid level of high or low pressure CO₂, Halon, FM200, Propane and any liquefied gas under pressure, without the need to move or weigh the cylinders. There is no reduction in health and safety, and the risk of gas leaks during servicing is eliminated as cylinders remain active and in situ. The **PLI Plus** can be used on cylinders, pipe-work and any single skinned holding vessel with up to 25mm thick walls. The unit will also indicate the level of oil or water in a container or tank. The **PLI Plus** gives accurate results by generating an ultrasonic sound wave that travels through the container and into the liquefied gas or fluid. The pulse responds differently to the presence or absence of liquid, indicating the level of the liquid.

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ACCREDITATIONS:

- ISO 9001:2015 Certificate Number GB13487
- IIMS Corporate Membership Number C508
- Fire Protection Association (FPA) Membership Number 27135
- National Fire Protection Association (NFPA) Membership Number 2800960
- PLI Plus NATO Number 6680-99-517-9122
- NATO Commercial And Government Entity (NCAGE) Code U0B22

THE COMPLETE **PLI PLUS** LIQUID LEVEL GAUGE KIT INCLUDES

- **PLI Plus** liquid level gauge
- Protective leather case and neck strap
- Piezoelectric sensor
- Three-section telescopic extension
- 125ml bottle of couplant
- Full operating instructions
- 4 x 9v PP3 batteries
- Foam-lined black polymer carry case



PLI LIQUID LEVEL GAUGE APPLICATIONS

To find the level of liquid or liquefied gas in

- Metal cylinders
- Pipe work
- Any single skinned pressurized vessel
- Liquid storage tanks



PLI PLUS TECHNICAL SPECIFICATIONS

- Accuracy: $\pm 1\text{mm}$
- Features: Power boost facility for cylinders in poor condition and cylinder wall thickness selector for thick ($>4\text{mm}$) or thin ($<4\text{mm}$) walled cylinders.
- Unit Dimensions: 200 x 100 x 40mm
- Unit Weight: 570g including batteries and leather case
- Sensor: 1.5m cable and magnetic clamp for hands-free use
- Sensor Dimensions: 95 x 60 x 60mm
- Temperature Range: -10°C to $+50^{\circ}\text{C}$
- Power Supply: 2 x 9vPP3 batteries
- Battery Life: 20 hours nominal with 2 PP3 alkaline batteries
- Carry Case Dimensions: 450 x 370 x 100mm
- Operational Weight: 680g
- Shipping Weight: 2.5Kg

HOW TO USE THE **PLI Plus**

- Place the sensor in an area known to be above the liquid level.
- Adjust the GAIN control until the meter shows a reading near to 10 but not above 10.
- Place the sensor in an area known to be below the liquid level. The meter should read towards 0 but not below 0.
- As the sensor is moved upwards towards the liquid level the meter will start to move towards 10. When the whole of the sensor footprint is above the liquid level, the meter will read 10. When the sensor is at the liquid level the gauge reading will read a value un between 10 and 0. A reading of approximately 5 at the liquid level is suggested.