

## PLI *PLUS* – Portable Liquid Level Indicator



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 CO<sub>2</sub>, Halon, FM200, Propane and any liquefied gas under pressure, **without the need to 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** generates an ultrasonic sound wave that travels through the steel of the cylinder and into the liquefied gas. The pulse responds differently to the presence or absence of liquid indicating the level of the liquid.

The **PLI Plus** can be used on cylinders, pipe-work and any single skinned holding vessel with up to 25mm thick walls. It 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.

\*Please note when the unit is being used to determine the level of liquid CO<sub>2</sub>, an ambient temperature of over 27°C will not give a result, as above this temperature the CO<sub>2</sub> changes state from a liquid to a gas.

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- **Accreditations**

- ISO 9001:2008 Certificate Number GB13487
- National Fire Protection Association Corporate Membership Number 2800960
- IIMS Corporate Membership Number C508
- NCAGE Number U0B22
- NATO Stock Number 6635-99-551-8617



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- **PLI Plus 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



- **The complete PLI Plus kit includes:**

- **PLI Plus** Gauge
  - Weight: 300g
  - Dimensions: 200 x 100 40 mm (max)
  - Power Supply: 2 x 9vPP3 batteries
  - 20 hours of operation
- Sensor with 1.5m Cable
- Protective Leather case with neck strap
- Couplant
- Three-section telescopic extension arm for reaching to the back of banks of cylinders
- 450 x 370 x 100mm Carry Case



- **PLI Plus Features**

- Ultrasonic sensor and magnetic clamp for hands free use.
- Cylinders do not need to be moved or weighed.
- Risk of gas leaks during service eliminated.
- No reduction in health and safety, cylinders remain active and in situ during service
- Reliable results with accuracy of  $\pm 10\text{mm}$ .
- Can be used on cylinders, pipe-work and any single skinned holding vessel
- with up to 25mm thick walls.
- Suitable for high or low pressure
- CO2 (up to 27°C), Halon or FM200 systems.
- Easy to use with no training needed and full operating instructions given.
- 12 times power boost facility for cylinders in poor condition.



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- **PLI Plus Technical Specifications**

- Accuracy:  $\pm 10\text{mm}$
- 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: 300g
- Sensor: 1.5m cable and magnetic clamp for hands-free use
- Sensor Dimensions: 95 x 60 x 60mm
- Temperature Range:  $-10^{\circ}\text{C}$  to  $+50^{\circ}\text{C}^*$
- 94cm-long extension arm
- 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: 700g
- Shipping Weight: 2.5Kg



*\*Please note when the unit is being used to determine the level of liquid CO<sub>2</sub>, an ambient temperature of over 27°C will not give a result, as above this temperature the CO<sub>2</sub> changes state from a liquid to a gas.*

- **PLI Plus Operation**

- The GAIN control allows adjustment of the ultrasound response to accommodate different cylinder sizes, gas type and cylinder condition.
- The main function selector switch controls ON and OFF,
- BATTERY CHECK and BOOST ( for difficult or rusty cylinders ).
- And the CYLINDER WALL THICKNESS selector for thick ( $>4\text{mm}$ ) or thin ( $<4\text{mm}$ ) walled cylinders.



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