

PLI Digital Portable Liquid Level Gauge



The **PLI Digital** 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 Digital** 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 Digital** 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.

The **PLI Digital** has the ability to boost the power by 12, enabling cylinders to be read even when they are in poor condition, or suffering from a layer of rust. The **PLI Digital** also has an in-built thermometer (in both C & F), an easy-to-read digital display, one-button-set-up function for faster cylinder testing and smart plug, which enables the signal strength to be monitored by an audio signal from an internal speaker.

- **Accreditations**

- ISO 9001:2008 Certificate Number GB13487
- International Institute of Marine Surveyors
- (IIMS) Corporate Membership Number C508
- Fire Protection Association (FPA)
- Membership Number 27135
- National Fire Protection Association (NFPA)
- Membership Number 2800960
- NATO Number 6635-99-551-8617
- NATO Commercial And Government Entity (NCGE) Code U0B22



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

- Protective leather case and hand strap
- Piezoelectric sensor
- 94cm three-section telescopic extension
- 125ml bottle of couplant
- Full operating instructions
- 8 x AA rechargeable batteries (4 spare)
- Foam-lined black polymer carry case



- **PLI Digital Technical Specifications**

- Accuracy: $\pm 10\text{mm}$
- Features: Large graphic display ~ Automatic rapid set up ~ Temperature gauge in C & F to enable fast weight calculations ~ Smart plug-in to enable signal strength to be monitored as an audible signal from the internal speaker ~ Power boost facility for cylinders in poor condition ~ Cylinder wall thickness selector for thick ($>4\text{mm}$) or thin ($<4\text{mm}$) walled cylinders.
- Unit Dimensions: 210 x 130 x 55mm
- Unit Weight: 540g (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 $+50^{\circ}\text{C}^*$
- 94cm-long extension arm
- Power Supply: 4 x AA batteries
- Battery Life: 20 hours nominal with 4 x AA batteries
- Carry Case Dimensions: 450 x 370 x 100mm
- Operational Weight: 650g
- Shipping Weight: 2.5Kg



**Please note when the unit is being used to determine the level of liquid CO₂, an ambient temperature of over 27°C will not give a result, as above this temperature the CO₂ changes state from a liquid to a gas.*

- **PLI Digital 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



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- **How to use the PLI Digital**

- Wipe clean the cylinder in the area that the sensor is to be placed and apply couplant to the sensor. Place the sensor in an area known to be above the liquid level. Always orientate the sensor so the white dot is at the top.
- Place the sensor in an area known to be above the liquid line. The reading on the display may show anything between 5 and 12. To calibrate the **PLI Digital** unit, press the SET button, the screen will say SETTING and the display bargraph will rise or fall until it reaches 10; you will hear a double bleep and the screen will say SET.
- 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 of between 10 and 0. What you are looking for is the large change in value between a reading below the liquid level and one above the liquid level. A reading of approximately 5 at the liquid level is suggested.



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