

## PLI Digital Ultrasonic Liquid Level Indicator



The fully American Bureau of Shipping (ABS) Type Approved **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 CO<sub>2</sub>, Halon, FM200, 3M Novec 1230, 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 an 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

### Class Instrumentation Ltd

London, United Kingdom

Telephone: +44 (0)20 8333 2288

info@classltd.com

www.classltd.com

 follow us @classltd

 like us on facebook.com/ClassInstrumentation

#### ACCREDITATIONS:



- ABS Type Approval



- ISO 9001:2015 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 Stock Number 6680-99-155-5945
- NATO Commercial And Government Entity (NCAGE) Code U0B22

## THE COMPLETE *PLI Digital* LIQUID LEVEL GAUGE KIT INCLUDES

- *PLI Digital* liquid level gauge
- Protective leather case
- Three-section telescopic extension arm
- Foam-lined red polymer carry case
- Full operating instructions
- 125ml bottle of couplant
- Piezoelectric sensor
- 8 x AA batteries



## *PLI Digital* LIQUID LEVEL GAUGE APPLICATIONS

To find the level of liquid or liquefied gas in

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



## *PLI Digital* TECHNICAL SPECIFICATIONS

- Accuracy:  $\pm 1.0\text{mm}$
- Features: Large graphic display ~ Automatic rapid set up for faster cylinder testing ~ Temperature gauge in C & F to enable fast weight of gas calculations ~ Smart plug-in which enables the signal strength to be monitored by an audio signal from internal speaker ~ Power boost facility for cylinders in poor condition ~ Cylinder wall thickness selector for thick (>4mm) or thin (<4mm) 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
- Battery Life: 20 hours nominal with 4 x AA batteries
- Carry Case Dimensions: 450 x 370 x 100mm
- Sensor Dimensions: 95 x 60 x 60mm
- Three-section telescopic extension arm
- Temperature Range:  $-10^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$
- Power Supply: 4 x AA batteries
- Operational Weight: 650g
- Shipping Weight: 2.5Kg

## HOW TO USE THE *PLI Digital*

- Place the sensor in an area known to be above the liquid line and 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; a double bleep will sound and the screen will say SET.
- Place the sensor in an area known to be below the liquid level. The meter should read 0.
- As the sensor is moved upwards towards the liquid level the meter will start to move upwards. 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 between 10 and 0. Therefore, a reading of approximately 5 suggests the liquid level.