



## INTRODUCING PORTASONIC® PRO

Handheld tablet-based ultrasonic clamp-on  
flow meter with pressure prediction software



# INTRODUCING THE PORTASONIC® PRO



**Portasonic® PRO** is handheld tablet-based ultrasonic clamp-on flow meter with pressure prediction software for calculating internal pipe pressure from measured flow rates.

- **Type** – Portable, tablet-based ultrasonic clamp-on flow meter with pressure prediction software
- **Part Number** – 2618949-PSOPRO
- **Application** – Commonly used for fire sprinkler systems, wastewater, fuel monitoring, etc.



The **Portasonic® PRO** combines the functionality of the **Portasonic 2.FLO** in measuring flow rates non-invasively with the **Portasonic CALCULATOR**, which is the first instrument capable of determining the internal pressure within pipes, using external flow technology.

**MEASURE YOUR LIQUID FLOW RATES NON-INVASIVELY AND CALCULATE INTERNAL PIPE PRESSURES ALL IN ONE TOOL.**

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# ONE TABLET, TWO CAPABILITIES

## MEASURE FLOW RATES

Using this integrated device, you can non-invasively and accurately measure liquid flow rates in pipes. It utilizes one of the world's leading non-invasive flow meter technologies, making it ideal for a wide variety of maintenance and inspection needs. It is capable of achieving accuracies of +/- 0.5% of the true flow rate, ensuring precise measurement every time.

## CALCULATE PIPE PRESSURE

You can input the measured flow rate and pipe information into the device to calculate internal pipe pressures. The Portasonic® Pro can calculate the liquid pressure with an accuracy of within 5%. The unit is pre-loaded with the capability to measure 19+ different fluids and 23 different common pipe materials, and also has the ability to add custom materials to meet your specific needs.



# ADVANTAGES OF THE PORTASONIC® PRO

Measure flow rates non-invasively and calculate pressure quickly and easily using an intuitive touchscreen tablet

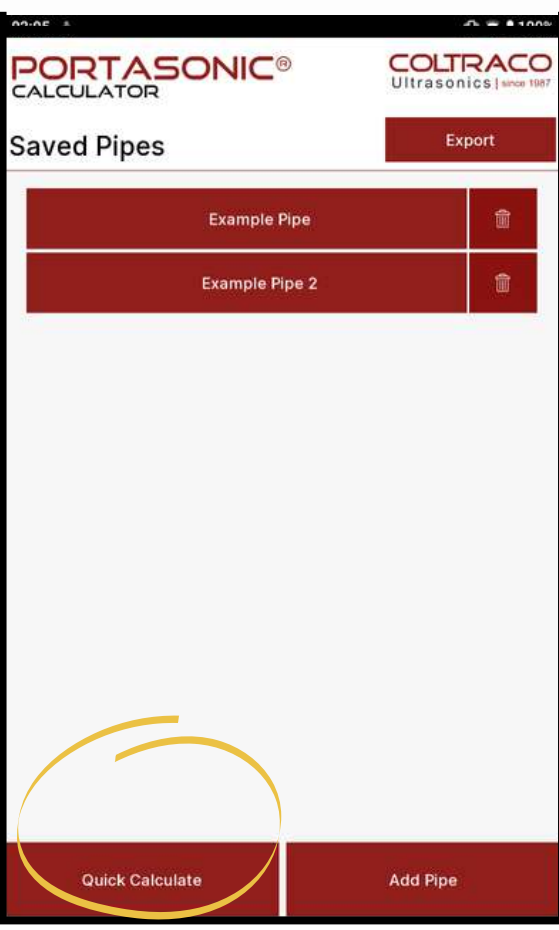
Save data to records and export via USB or email to ensure traceability

Filter records by date or by pipe

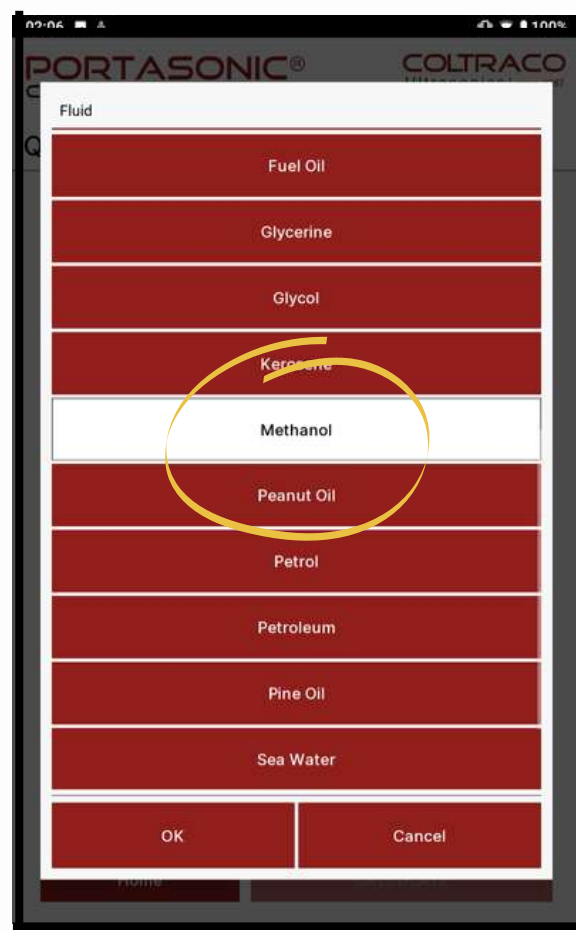
Accounts for temperature and material roughness to produce results of the highest possible accuracy

Determine if your pipe is pressurised to within a safe tolerance

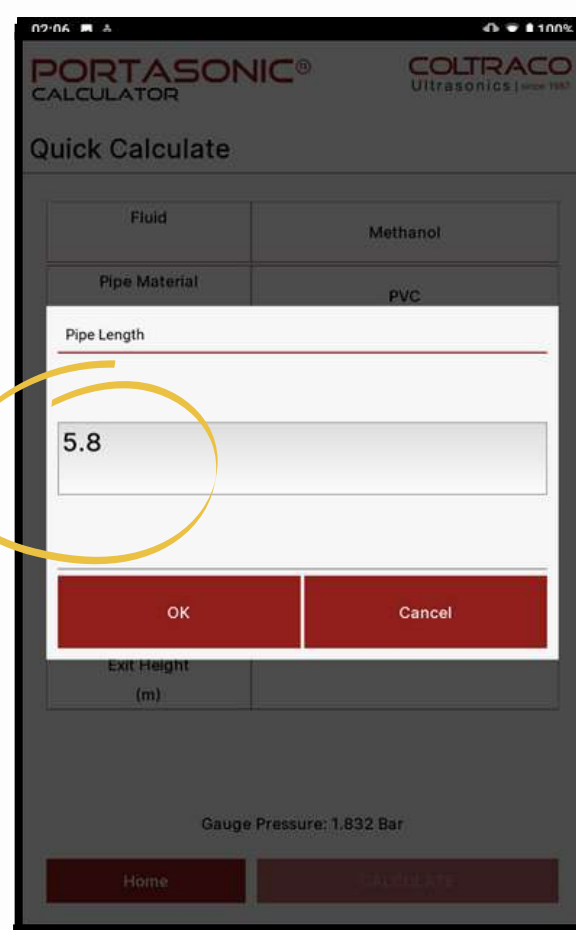
## EXAMPLES OF PRESSURE CALCULATION



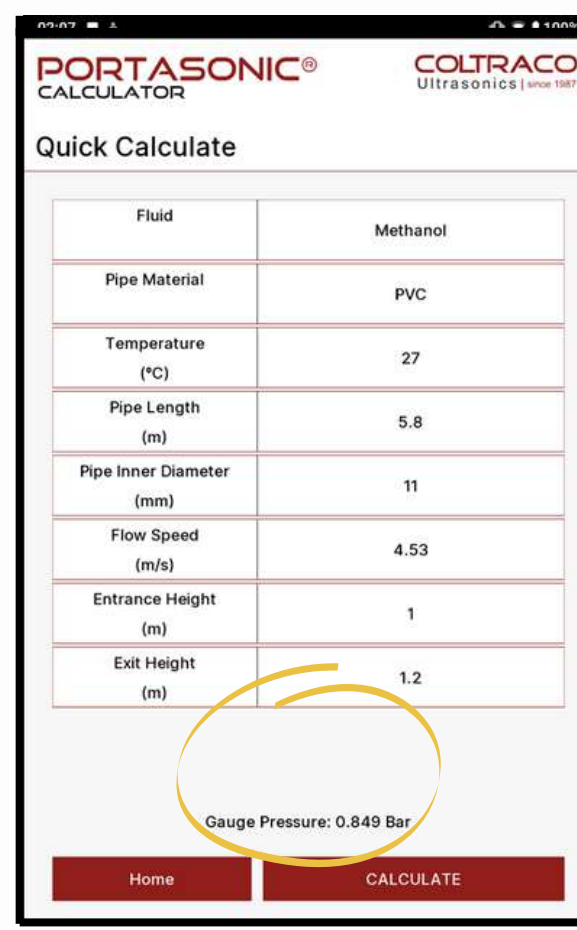
1.Select: Quick Calculate



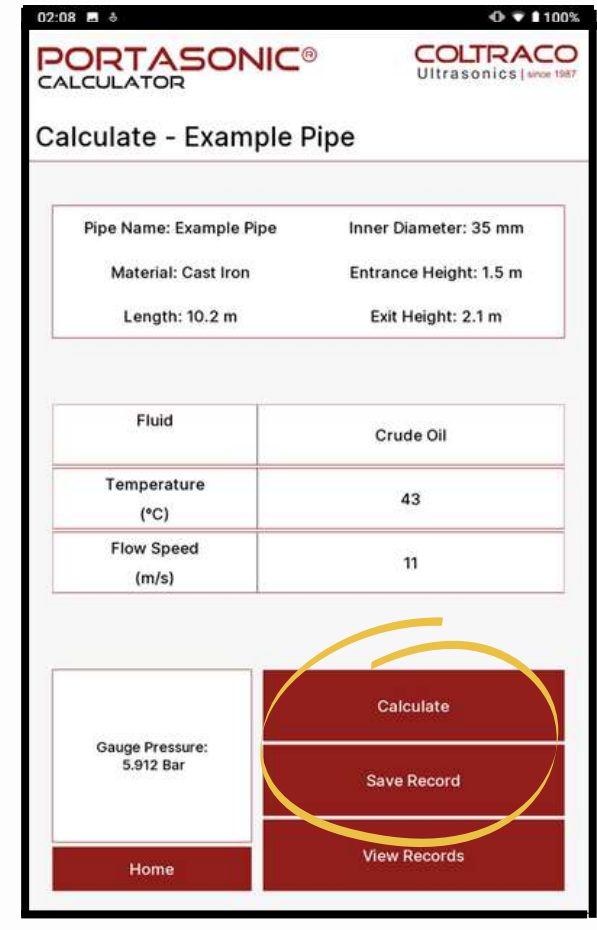
2.Select: Fluid Type



3.Enter: Pipe Length



4.Enter: all measurements to allow device to automatically calculate the Pressure (bar)



5.Choose to calculate, save records or view existing records

# REASONS TO CHOOSE THE PORTASONIC® PRO



## CHOOSING NON-INVASIVE ULTRASONIC TRANSIT TIME TECHNOLOGY OVER INLINE FLOW METERS?

- 1. One instrument Two functions.** Clamp on, portable and non-invasive = allows a single instrument to be used across multiple different pipes / pipe sections. Calculate and Store Flow and Pressure readings directly on the tablet under one instrument, two functions
- 2. No installation costs** such as drilling into pipes = no downtime to the pipe network
- 3. No Pressure Loss.** There is no contact with the fluid being measured = no risk of pressure loss throughout your pipe network
- 4. Longer life / Lower costs.** As the fluid is not in contact with the Portasonic® Pro, it cannot damage the flowmeter, contribute to a longer lifespan and lower maintenance cost compared to inline flowmeters which are in contact with the fluid and risk being damaged by the pressurised flowing fluid



# MEASURING PRESSURE WITH PORTASONIC® PRO




## WHY MEASURE INTERNAL PIPE PRESSURE?

- **Make sure you do not exceed safe tolerances.** To keep pipes within safe tolerances, the pressure in a pipe system must be closely monitored to ensure it does not exceed safe tolerances. Critically high pressures can lead to pipe failure, damage to property, and risk to personnel.
- **Keep pipes pumps and related equipment good condition.** The durability and safe functioning of pipes, pumps, and related equipment are also affected by pressure.
- So **Portasonic® Pro** provides you with the knowledge that the pressure in a pipe system for ensuring that the flow is occurring as expected, in a safe and sustainable manner.



# ABOUT COLTRACO ULTRASONICS


 **Led by our Chairman**, Dr Carl Hunter OBE, founder of Coltraco Ultrasonics.

Headquartered in **London**, we are a British high-exporting advanced manufacturer.

Operating in **120 countries**, with Distributors in **80 countries**.

Our technologies are used across a diverse array of **25 Market Sectors**, from shipping to safety engineering, from process control to mining, from offshore energy to renewables, from healthcare to the built environment, naval and space.

**Proud winners of the Queen's Award for Enterprise** in International Trade, in both 2019 and 2022.

 Our organisation comprises of Manufacturing, Scientific, Research and Technological Development & Solutions:

- Our **Company**: COLTRACO ULTRASONICS
- Our **Laboratory**, co-located with the Centre for Advanced Instrumentation, part of the Department of Physics, Durham University
- Our **Research Organisations**, the Durham Institute of Research, Development & Invention (DIRDI)
- Our **Centre for Underwater Acoustic Analysis** (CUAA)

*"To see the sounds that others cannot hear"*

*"To measure the hitherto unmeasurable"*



Delivering **Safesite™** on land in areas such as the airtightness of a building, data centre or ICU Hospital Ward and

**Safeship™** at sea in the watertight integrity of a ship or offshore platform or the monitoring of the gaseous extinguishing system contents that protect them against fire.

## BY BEING SCIENCE-LED:



We identify and nurture brilliant minds, creating a unique research environment at Durham University, a globally outstanding centre of teaching and research excellence.



In our research at DIRDI, we undertake fundamental research into the physical laws of the universe, alongside applied research in Physics, Mathematics, Engineering and Computer Science in acoustics, electromagnetism and information engineering.



It is our research and manufacturing excellence and our enduring commitment to the "through-life" sustainment of our technologies by aerospace standards of Maintenance, Repair, Overhaul, Calibration & Certification.



We deliver genuine value for our customers through our scientific and institutional values, and the global quality of our instrumentation, commercial and technical services.



# OUR CUSTOMER CARE COMMITMENT



## Global Support

You can receive worldwide support through our network of Global Partners, Distributors, and Service Centres (ODA's).

More than 150 Exclusive local distributors, in over 80 countries.

Service Stations worldwide including:

- Europe - UK, Turkey
- Middle East - UAE
- Asia - India, Singapore
- Australia
- USA - Florida
- Central America - Trinidad
- South America - Brazil



With every Coltraco purchase you receive FREE Lifetime Technical Support in addition to your 3 year warranty on the main unit and 1 year on the sensor.



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