

Tablet-based Flow to Pressure Calculator

using flow rate results from the Portasonic®

Get in touch Call +44 207 629 8475 Email sales@coltraco.co.uk www.coltraco.com/product/portasonic-calculator/

COLTRACO Ultrasonics since 1987







FLOW->PRESSURE

PORTASONIC® CALCULATOR

The only instrument capable of determining the pressure required to drive fluids at a specified flow speed

PN: 2618949-CALC

Software on robust 7" electronic tablet giving the world's first capability in calculating the pressure required to pump a liquid along a pipe that is travelling at the flow speed measured by the Portasonic[®]



FOR PORTASONIC CUSTOMERS

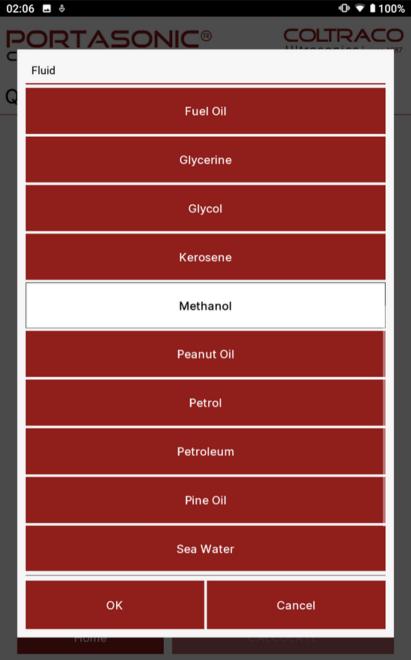
The perfect product to flow your and save pressure results for better Combine reporting. calculated pressure with readings from the Portasonic® 2.FL0 to verify measured flow speeds and rates against a fixed pressure gauge in the system

MULTI-PURPOSE

Works on 23 different common pipe materials: ABS, aluminium, asbestos, carbon steel, cast iron, cement, copper, ductile iron, epoxy, fibre glass, glass, GRP, lead, nylon, PE, PP, PTFE, PVC, rubber, stainless 403, stainless 316, steel, Teflon

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19+ FLUIDS



PORTASONIC® CALCULAT

INTUITIVE



Calculate quickly and easily using an intuitive touchscreen tablet

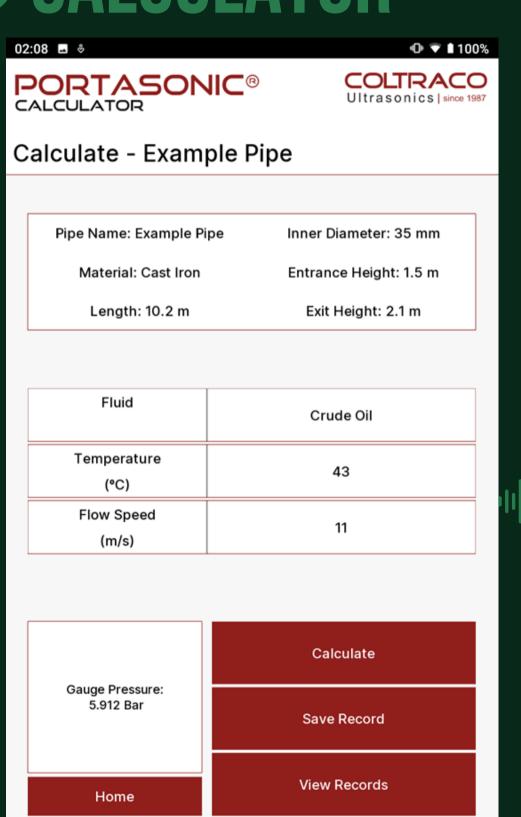
CLEAR RESULTS

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

ACCURATE



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



the results Save from vour 2.FL0; Portasonic® record and download inspection reports. Filter records bv date or by pipe

RELIABLE

Facilitate determination of the expected wear and tear on the system caused by pressure

Facilitate risk assessment of high pressure systems

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REPORTING

ACCURATE

Provides a non-invasive alternative to pressure gauges

FLOW RATE

Combine with the Portasonic® to verify flow speeds and rates

SAFE

Determine if your pipe is pressurised to within a safe tolerance

INNOVATIVE

Ergonomic design, lightweight, easy to use for all skill levels

ACCURACY

Portasonic CALCULATOR uses an empirical equation which closely models the fluid dynamics in a pipe system using real-life industry data. The calculated pressure is accurate to within ±5% excepting the following caveats:

- This accuracy is for clean pipes, free of internal corrosion and residue build-up.
- It is also valid for temperatures between 10°C and 30°C.
- Temperatures outside of these bounds will, for the most part, still yield results of a similar accuracy, but these are as yet unverified.
- Some graded liquids are listed under a general name, for example, crude oil.
- These take median values for the liquid properties, which will not necessarily be accurate for all grades.
- Manufacturer Disclaimer: the software is designed under COVID-19 conditions

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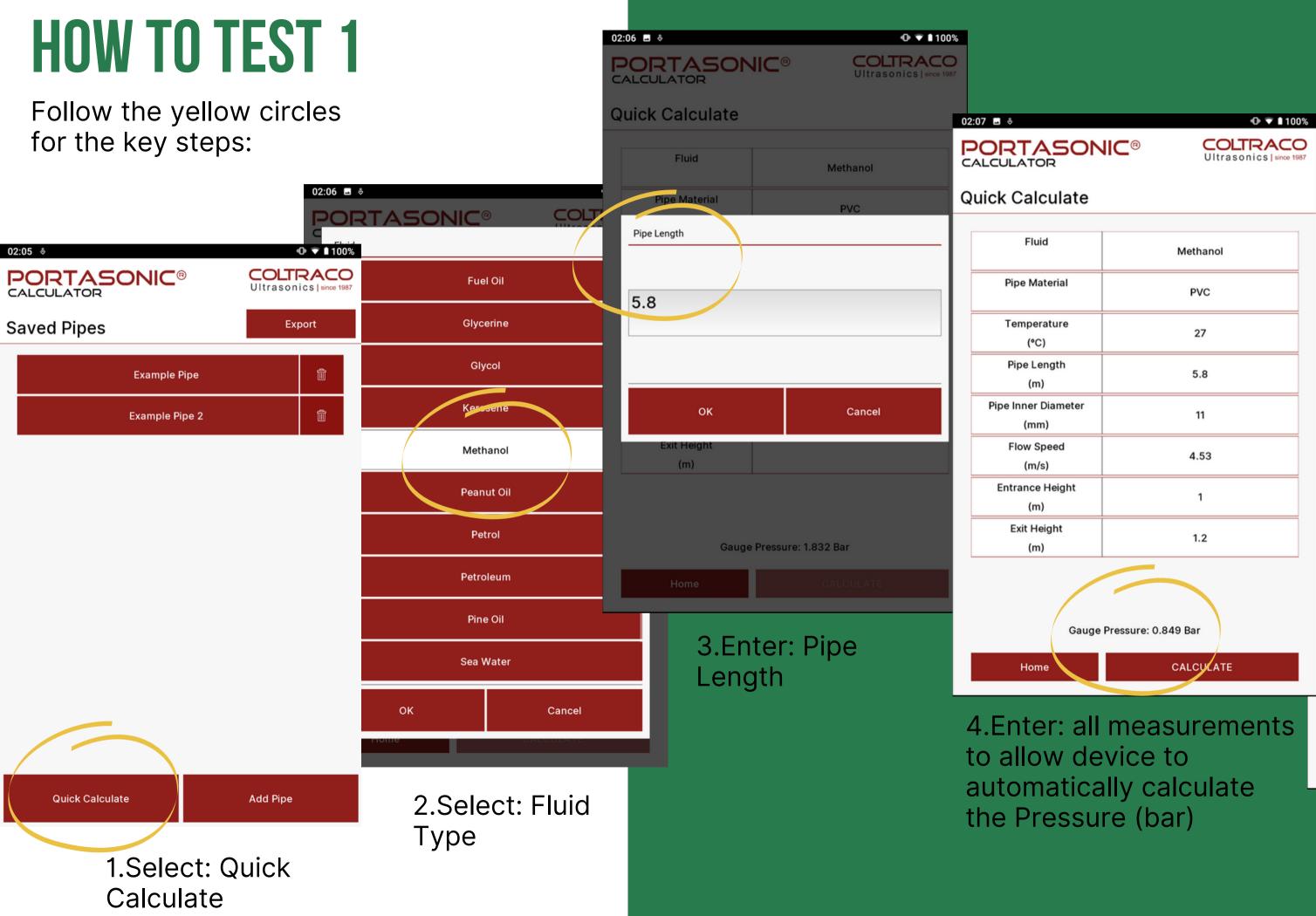
WHY DOES PRESSURE MATTER?

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. The durability and safe functioning of pipes, pumps, and related equipment are also affected by pressure. Knowledge of the pressure in a pipe system is therefore important for ensuring that the flow is occurring as expected, in a safe and sustainable manner.

- Portasonic® CALCULATOR is a non-invasive alternative to pressure gauges, which may require costly installation in difficult to reach places.
- It is, therefore, the only way of quantifying the pressure in any system where the flow speed is known, but there is no apparatus installed for pressure measurement.
- It can be used with all of your pipes to store records, thereby creating a centralised database of all past tests - perfect for ensuring reliable, traceable reporting.

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d	Methanol
nterial	PVC
ature)	27
ength)	5.8
Diameter n)	11
peed s)	4.53
Height)	1
eight)	1.2



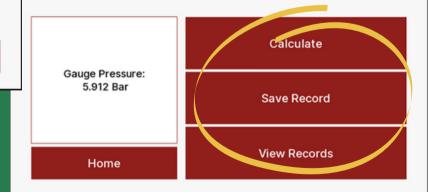




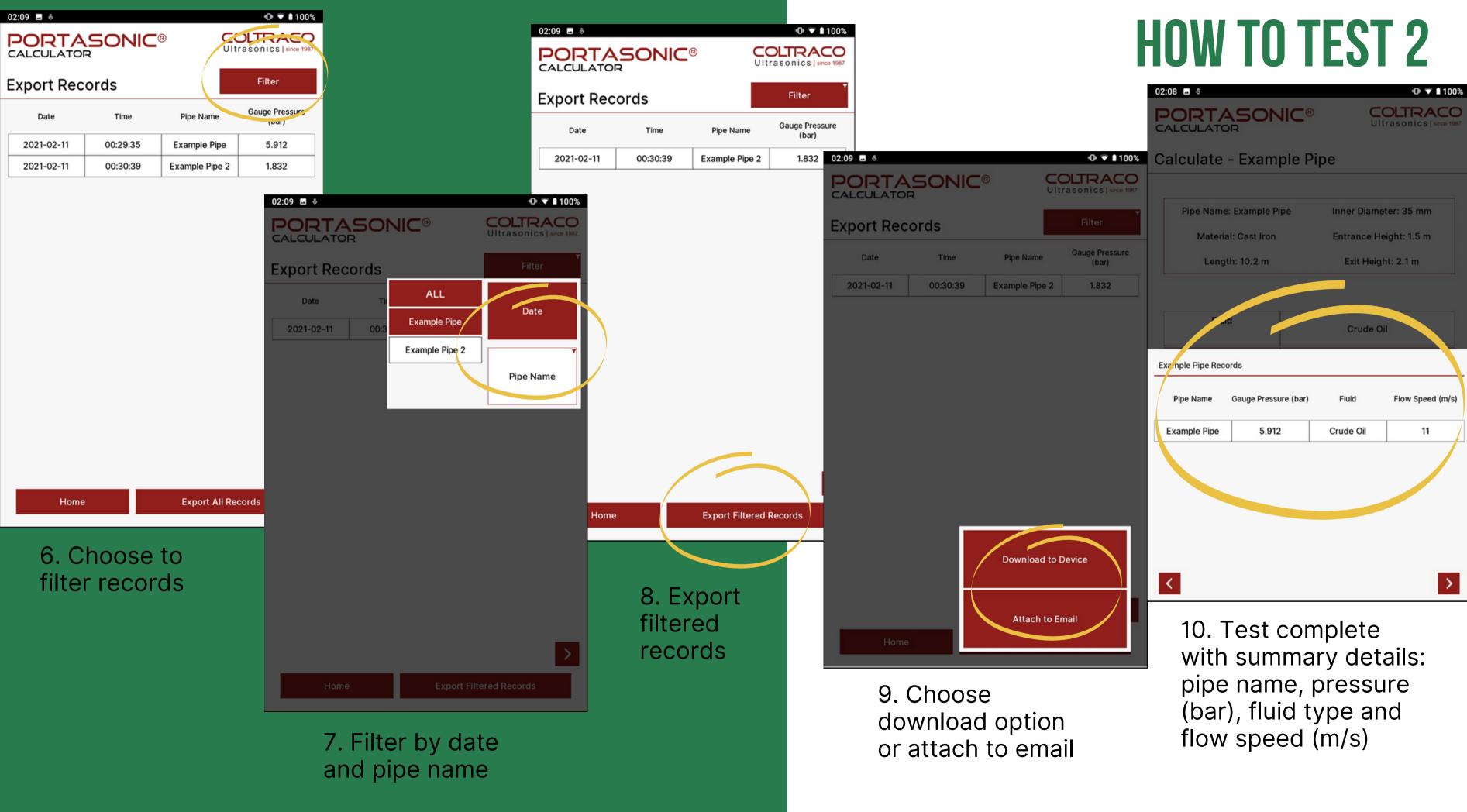
• ♥ ♥ ∎ 100%

Calculate - Example Pipe

Pipe Name: Example Pi	pe Inner Diameter: 35 mm	
Material: Cast Iron	Entrance Height: 1.5 m	
Length: 10.2 m	Exit Height: 2.1 m	
Fluid	Crude Oil	
Temperature	43	
(°C)		
Flow Speed	11	
(m/s)		



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



		· · · · ·
TECHNIC	AL SPECIFICATIONS	RAM ROM
DIMENSIONS	215.6x135.8x18.9mm	Nom
WEIGHT	558grams	CAMERA
WATERPROOF LEVEL	IP67 waterproof	
MATERIAL	PC+TPU	WIFI
BAND	2G:GSM 850/900/1800/1900MHz 3G:WCDMA 900/1800/2100MHz 4G:FDD-LTE B1/B3/B5/B7/B8/B17/B20/B66/B71/B28A/B; TDD-LTE: B38/B39/B40/B4	GPS BT NFC SENSOR
SIM CARD	Dual SIM card dual standby (1 micro + 1 nano)	
CPU	MT6762 Cortex A53 octa core, 2.0GHz; GPU: PowerVR GE8320, 650MHz	I/O PORTS
	Android 9.0 USB Type-C/BT	BATTERY
TRANSFER SPEAKER	φ23 loudspeaker, 1 watt	STANDBY T OTHER
FM RADIO	Yes, need to plug in earphone	FEATURES
SCREEN	7.0 inch HD IPS capacitive touch screen, 1280x800px	LANGUAGE COLOUR

4GB RAM

64GB ROM, support TF card up to 128GB maximally

Double cameras, front 2.0MP camera, 13.0MP back camera with flashlight

Yes, IEEE802.11 a/b/g/n/ac, support 2.4GHz/5GHz dual band WiFi

Yes, also supports A-GPS/GLONSS/BDS V4.0

Support, 13.56MHz

Geomagnetic sensor, light sensor, proximity sensor, gravity sensor, gyro sensor

1x SIM card slot; 1x TF card slot; 1x Micro USB port; 1x 3.5mm earphone jack

Built-in 8000mAh rechargeable Li-ion battery

TIME Up to 200 hours

Calculator, Calendar, Email, WiFi hotspot, OTG function, E-compass etc.

ES English

Black & Yellow

PACKAGE

Portasonic® CALCULATOR is delivered in a package with everything required to carry out testing:

7 inch handheld tablet
Plus accessories:
1x USB Cable
1x Hand Strap
1x USB Charger
1x Mini Screwdriver
1x User Manual

Capacitive Touch **—** Display

Recent Apps Button Home Button Back Button

Power Button

PORTASONIC®

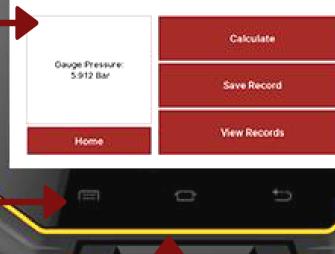
UltrasonicsTerre 140

O W 11001

Calculate - Example Pipe

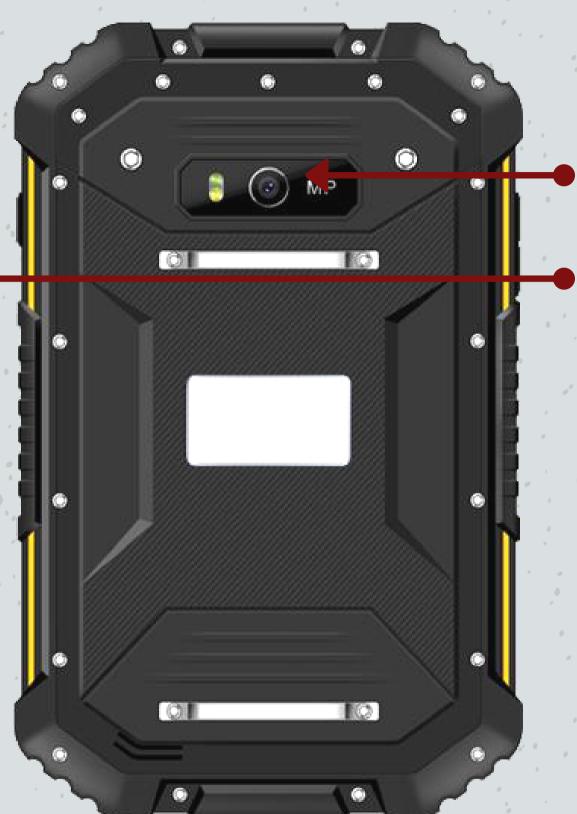
Pipe Name: Example Pipe	Inner Diameter: 35 mm
Material: Cast Iron	Entrance Height: 1.5 m
Length: 10.2 m	Exit Height: 2.1 m

Fluid	Crude Oil
Temperature (*C)	43
Flow Speed (m/s)	55



USB Type-C Port

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13 MP back camera

Volume buttons

Manufacturer Disclaimer: the software is designed under COVID-19 conditions

CUSTOMER CARE COMMITMENT

Technical Support provided free of charge for the unit's lifetime. Every unit provided by Coltraco comes with a 3 year warranty supporting the manufacturing quality of the main unit and 1 year on sensor.

OPTIONAL PORTACARE® after sales package.

We have local partners to support you worldwide through our global network of Partners, Distributors and ODA (Organisational Delegated Authorities).

ODAS are Service Centres which provide regional support for caliibration in UK, France, Greece, UAE, India, Singapore and USA, Brazil, Trinidad.

Coltraco Ultrasonics

REVIEWS.io

"The instruments acquired by Benguella Enterises (Pty) Ltd has enabled our technicians to work faster delivering accurate undisputed test results. The staff at Coltraco has been truly most supportive and professional during the years of dealing with them. We can vouch for a..."

 $\star \star \star \star \star \star$ Verified Reviewer

"We have and we and togheter. Good cust the Coltra material a

Coltraco®, Coltraco North America®, Portamarine®, Portalevel®,Permalevel®, Portagauge®, Portasonic®, Portamonitor®, Portasteele®, Portascanner®, Permascanner®, Safesite®, Safesite® are trademarks or registered trademarks of Coltraco Limited, UK. DuPont ™, FM-200®, FE-25™, FE-13™, and FE-241™ are trademarks or registered trademarks of E.I. du Pont de Nemours and Company and its affiliates. Novec™ 1230 is a trademark owned by 3M.

Coltraco Ultrasonics

✿REVIEWS.io

"We have been working with Coltraco since 2009 and we are always happy to continue working togheter.

Good customer service with prompt answer from the Coltraco's team. Right time of delivery and material always received in excellent..."

 $\star \star \star \star \star \star$ Verified Reviewer



