

P/N: 2618949-PSOPRO Ultrasonic Flowmeter with Pressure Calculation Functionality & Datalogging



PRODUCT SUMMARY

The Portasonic® PRO is a handheld, ultrasonic transit time clamp on flowmeter, with built-in pipe pressure calculation functionality, designed for measuring the flow rate and pressure within a pipe. Portasonic® PRO can be attached to and detached from a wide range of pipes varying in thickness and material, making it a versatile and portable way of measuring flowrate. The Portasonic® PRO has built-in real time pressure calculation based on the measured flow rate, and an additional “Quick Calculate” feature for one-off pressure calculations. Flow rate and pressure measurements can be logged internally on the tablet and, with a 64 GB hard drive, you can record a near unlimited number of measurements. These logs can then be exported at a later date, either via email, or locally onto a USB stick.

We strive to offer the highest quality instruments, built with exceptional quality materials in the UK and remain competitively priced in the market worldwide through our unique R&D position.

Some of the key advantages of Portasonic® PRO over our competitors:

- 1. Real-time, fully integrated pressure calculation, based on our worlds-first Portasonic® CALCULATOR.
- 2. Both metric (i.e. litres per hour) and imperial (i.e. gallons per minute) options for entering installation details and reading measurements.
- 3. The non-contact, clamp-on measurement means that the fluid contents of a pipe cannot be contaminated by the measurement process and the flowmeter has a longer lifespan and lower maintenance costs
- 4. The waveform/oscilloscope display allows an operator to receive sensor diagnostics to troubleshoot during installation and achieve the most accurate measurements possible.
- 5. Flow totaliser functionality, to track the total volume of liquid that has flowed through your system.
- 6. Flow rate measurements can be logged internally and exported later via either email or USB.
- 7. Battery life of 10+ hours of continuous use on a full charge for easy replacement, and up to 200 hours standby time.
- 8. 7” touchscreen display, with an intuitive UI for maximum ease of use.
- 9. Technical support and advice available throughout the lifetime of the unit and we are here to help you with your application.

SPECIFICATIONS

DIMENSIONS	Tablet – 216 x 136 x 19 mm Processing Unit – 105 x 40 x 21 mm Sensors – DM10: 40 x 20 x 25 mm
WEIGHT	Tablet – 558 g Processing Unit & Sensors – 400 g
DIAMETER RANGE	Standard Sensor (Model No. DM10): DN15 – DN 750 (1/2” – 30”)
PIPE MATERIALS	Built-in database of over 14 pipe wall materials. To use a custom material an operator can enter its speed of sound, which can be obtained from online databases.
FLUID TYPES	Built-in database of over 15 fluids. To use a custom fluid an operator can enter its speed of sound, which can be obtained from online databases.
FLOW VELOCITY	0.01 m/s – 25 m/s Turndown ratio: 1/100
ACCURACY	± 0.5% of measured value under ideal conditions. Repeatability of ±0.15%.
RESOLUTION	0.25 mm/s
MEASUREMENT UNITS	Metric or Imperial: Flow Velocity, Volumetric Flow Rate, Mass Flow Rate, Energy Flow Rate (Heat Quantity), Volume, Mass, Energy, Pressure
FREQUENCY	Sensor frequency: 1 MHz Measurement interval: 1 Hz
DISPLAY	7” Touch display (1280 x 800 px)
ADDITIONAL FEATURES	• Fully integrated, real-time pipe pressure calculation • Internal datalogging with 64 GB tablet hard drive for near unlimited capacity • Built in signal oscilloscope to provide diagnostics and allow for optimum installation.
POWER SUPPLY	8000 mAh rechargeable Li-ion battery for continuous operation of min. 10 hours (up to 200 hours standby)
IP RATING	• Tablet: IP 67 • Sensors: IP 66
OPERATING TEMPERATURE CERTIFICATION	• Main Unit: -10°C to +65°C • Sensors: -20°C to +150°C • CE, UKCA • Coltraco is ISO 9001:2015 and ISO 14001 approved • Option to include ISO 17025 calibration certification
WARRANTY	Main Unit: 3 years, Sensors: 1 year Lifetime customer support
PACKAGE CONTENTS	• Portasonic® PRO Tablet • Pair of DM10 Standard Sensors for pipes DN15-DN750 (connected to processing unit) • USB-A to USB-C adapter cable • Pair of Beaded Chain Clamps • Measuring Tape • Silicone-based Ultrasonic Couplant • User and Installation Manuals • Calibration Certificate • Robust Carrying Case