PORTAS NIC® PRO

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	• Main Unit: -10°C to +65°C • Sensors: -20°C to +150°C
CERTIFICATION	• 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