

**COLTRACO**  
Ultrasonics | since 1987



# INTRODUCING **PERMAFLOW®**

**FIXED, CLAMP-ON, ULTRASONIC TRANSIT TIME  
FLOW AND HEAT METER**  
FLOW + HEAT



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# PERMAFLOW®

## Fixed, clamp-on, ultrasonic transit time flow and heat meter

PN: 3578010-FLOW

Measure and monitor volumetric flow rate, mass flow rate, energy (heat quantity) flow rate - from one instrument

Non-invasive (no drilling required) for measuring flow rates of most liquids with gas/solid content less than 10% of volume



## FLUID TYPES

Built-in database of over 19 fluids, including water, sea water, kerosene, petrol, fuel oil, crude oil, Freon R134a, Freon R22, diesel oil, castor oil, F-76 fuel oil, Novec™ 1230, and glycol/water. To use a custom fluid, enter its speed of sound, which can be obtained from online databases.

## DATALOGGING & COMMUNICATIONS

Connection to PC is available as standard using both built-in USB and RS232, all measurements can be logged in its 16 MB built-in memory

## HEAT METERING

It has a unique ability to incorporate PT100 thermometer inputs so heat quantity measurement can be monitored alongside volumetric flow rates.

## PIPE MATERIAL

Built-in database with over 12 pipe materials available, including carbon steel, stainless steel 304, stainless steel 316, cast iron, ductile iron, copper, PVC, lead, nylon, PE, aluminium, asbestos, and fiberglass. To use a custom pipe materials, enter its speed of sound, which can be obtained from online databases.

## DIAGNOSTICS

It has a built-in signal oscilloscope for sensor positioning and diagnostics to achieve maximum accuracy with the measurement while providing visibility of the potential issues with the installation for troubleshooting purposes

## RECOMMENDED

Commercial building heat metering, fuel monitoring, waste water and many more



## VERSATILE

Capable of working on pipes DN15 – DN 2500; virtually any clean liquids; on a wide range of pipe materials. Without contact with the fluid, there are also fewer issues with the flowmeter being damaged by the nature of the fluid it is measuring compared to inline flowmeters

## ACCURATE

Accurate to +/- 0.5% under ideal conditions. Resolution of 0.25mm/s. Repeatability of 0.15% of measured value.



## OPTIONAL PLUG INS

There are multiple communication and plug-in IO modules available as options

## TOTAL FLOW

All measured values can be totalised giving total flow rate measured during a particular measuring session

## LOW COST

No installation costs such as drilling into pipes, therefore no downtime to the pipe network is present. Only one individual is required to operate the instrument

## RELIABLE

Capable of measuring flow velocities between 0.01m/s – 25m/s.

## MONITORING

24/7 flow rate, heat monitoring and customisable alert options are available

## ROBUST

Sensors rated IP66. Sensor temperature range -20°C to +150°C

## DATALOGGING

Unique Human Machine Interface (HMI) driven menu emphasises userfriendliness



# HEAT METERING

Due to its PT100 thermometer input integration, when Permaflow® is installed in heat networks or buildings for example, it is able to help comply with regulations by recording heated or chilled water flow rates, supply and return temperatures and calculate the thermal energy involved in heating and cooling the fluid to give an idea of energy consumption (for example in kWh or BTU units etc.)



# OUR CUSTOMER CARE COMMITMENT

## Global Support

120

Exporting 89% to 120+ countries

150

Exclusive Distributors in 80+ countries

3

Years warranty on the main unit and 1 Year on the sensor.

FREE

Lifetime Technical Support

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

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



Coltraco Ultrasonics

★REVIEWS.io

“Excellent quality products. Outstanding customer service by Coltraco team keeps us coming back. All of us here at Lois Safety are really impressed with the quality and promptness of service provided to us. The the personal touch from the helpful members of the team in every interaction makes all the difference.”

★★★★★ Muneer Mohammed

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