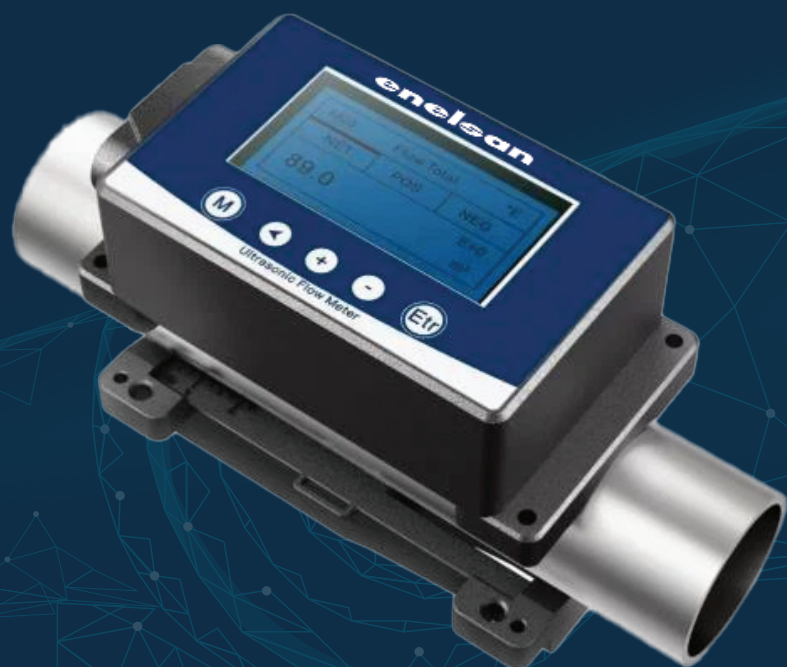


SMALL PIPE CLAMP-ON Type ULTRASONIC FLOWMETER

ETRANS –SFRC Datasheet



Precise Measurement,
Ultimate Control

www.enelean.com

CLAMP-ON TYPE ULTRASONIC FLOWMETER

MODEL Etrans- SFRC



Application Areas

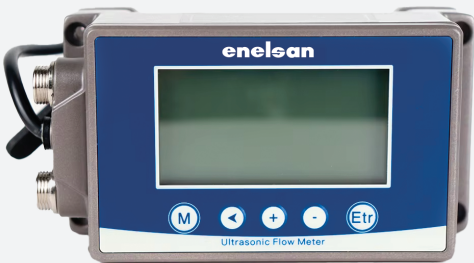
Water and Wastewater Management
HVAC (Heating, Ventilation, and Air Conditioning) Systems
Food and Beverage Industry
Chemical and Petrochemical Industry
Pharmaceutical and Healthcare Sector
Agriculture and Irrigation
Semiconductor and Electronics Manufacturing

Features

- **Clamp-on Design:** Allows for easy external installation without the need to cut or drill the pipe, or shut down the entire system.
- **Small Pipe Compatibility:** Specifically designed for small-diameter pipes ranging from DN15 to DN40 (1/2" to 1.5").
- **Non-invasive Measurement:** Since the sensors do not contact the liquid, there is no risk of contamination or corrosion, and it causes zero pressure drop in the system.
- **Wide Pipe Material Support:** Compatible with various pipe materials, including stainless steel, carbon steel, copper, PVC, and aluminum.
- **Fast and Easy Installation:** Usually requires no complex configuration; it can be quickly clamped onto the pipe to start measuring.
- **No Moving Parts:** Lacks mechanical turbines or wheels, meaning there is no wear and tear, making it practically maintenance-free.
- **Multiple Outputs & Communication:** Typically offers standard connections like RS485 (Modbus RTU), 4-20mA analog output, and OCT (Pulse) for seamless integration into automation systems (PLC/BMS).
- **Built-in Display:** Features an integrated screen that allows you to read the real-time flow rate and totalized flow directly on the device.

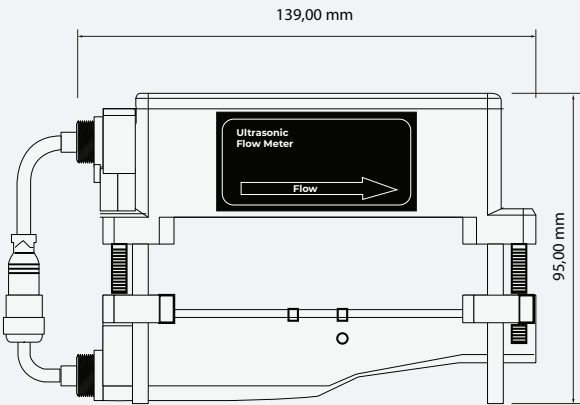
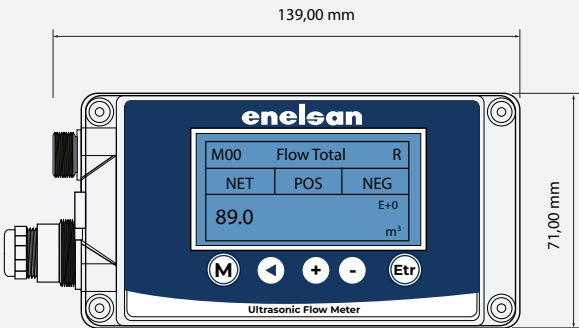
Description

The HLS DN15-DN40 Universal Clamp-on Ultrasonic Flow Meter is an innovative, non-invasive measurement solution designed specifically for small-diameter pipes ranging from 1/2 inch to 1.5 inches. Thanks to its clamp-on design, it can be quickly installed on the outside of various pipe materials—such as stainless steel, PVC, and copper—without the need to cut the pipe or shut down system operations. Featuring a maintenance-free structure with no moving parts and built-in communication options like RS485 and 4-20mA, it delivers highly accurate, real-time flow monitoring with zero pressure drop, making it an ideal choice for HVAC, water treatment, and industrial automation systems.

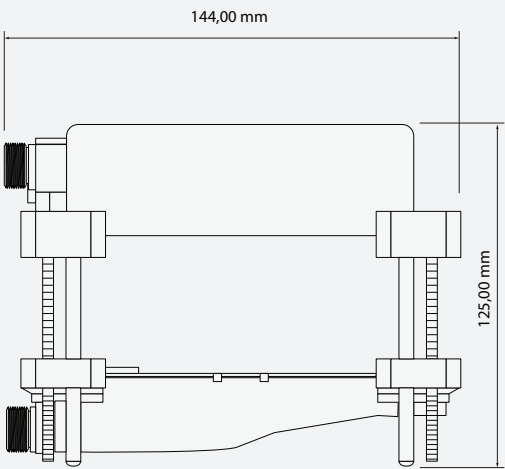
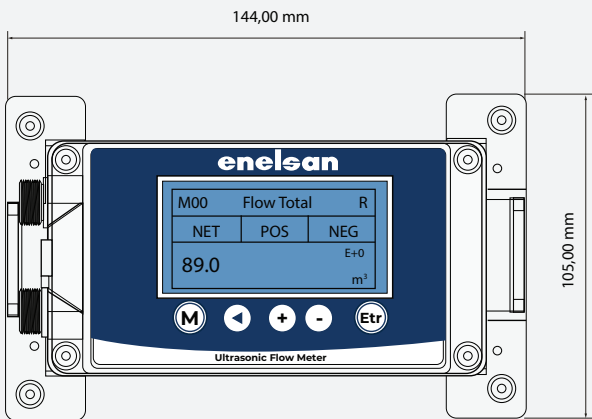


Structure

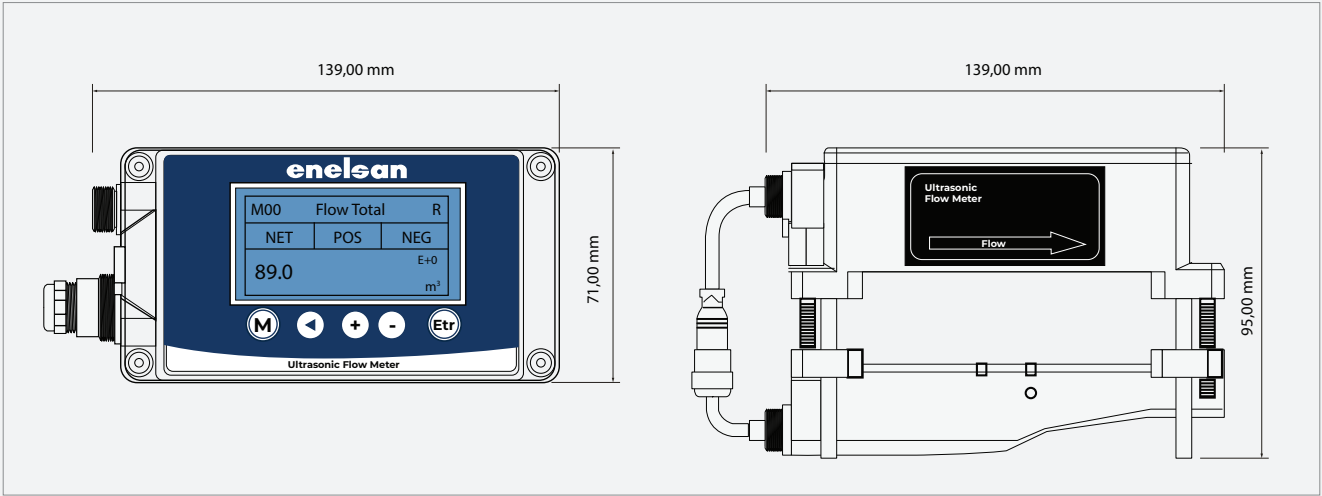
DN15-DN40



DN50-DN65



CLAMP-ON TYPE ULTRASONIC FLOWMETER
MODEL Etrans- SFRC



Technical

Parameter	Specification
Pipe material	Metal / PVC, PP or PVDF rigid plastic pipe
Liquid type	Water/other liquid (single liquid medium without solid particles or impurities)
Temperature range	0-75 °C (no freezing on the surface)
Low speed cutoff value	0.1 m/s
Display	256*128, LCD
Response time	0.5-60s
Accuracy	± 2%, (± 1% after calibration)
Data storage time	300ms
Memory for data backup	EEPROM (data storage: more than 10 years, data read/write frequency: more than 1 million times)
Power and I/O connection	M12 type aviation plug
Output	4-20mA
Communication	Modbus RS485 / M-bus
Output options	OCT (pulse output) / one relay alarm (please contact the factory)
Power supply	10-24V VDC
Electrical power	<3W
Protection circuit	Power reverse connection protection, power surge protection, Output short circuit protection, output surge protection
Enclosure protection class	IP65
Ambient temperature	-10 to 60 °C (no freezing)
Relative humidity	35 to 85% RH (no condensation)
Vibration resistance	10 to 55Hz Double amplitude 1.5mm, 2 hours in each XYZ axis
Shock resistance	100 m/s² 16 ms shock for X, Y and Z axis, 1000 times
Main material	Aluminum, industrial plastics
Cable length	2m (standard), PT1000 sensor standard cable length 9m

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