

CLAMP-ON Type ULTRASONIC HEAT FLOWMETER

ETRANS -CO-UHF Datasheet

MID 004 Class II accuracy

Precise Measurement,
Ultimate Control

www.enelean.com



CLAMP-ON TYPE ULTRASONIC FLOWMETER

MODEL Etrans- CO-UHF



Application Areas

HVAC (Heating, Ventilation, and Air Conditioning) Systems
Building and Facility Automation
Industrial Process Lines
Water Treatment and Distribution Networks
Food, Pharmaceutical, and Chemical Industries
Energy Management Systems (EMS)

Features

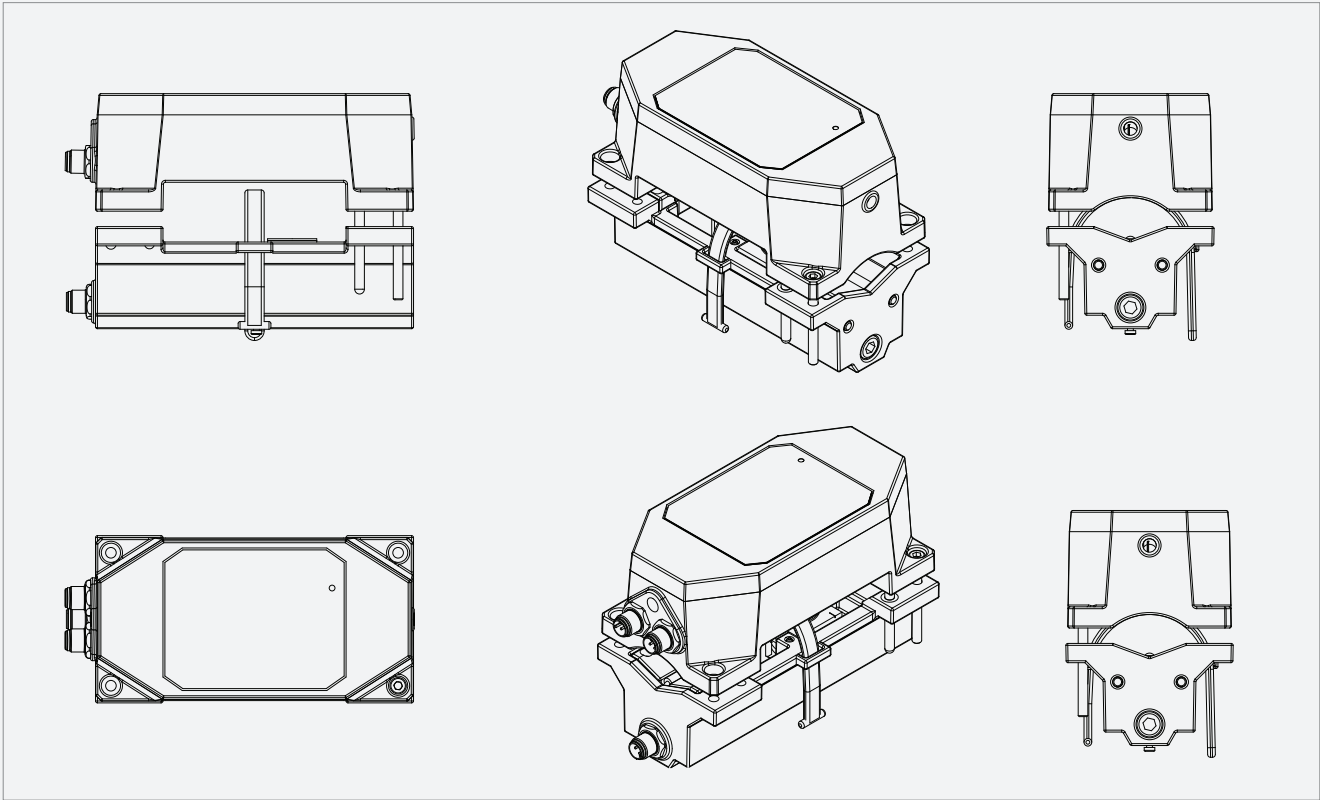
- High Precision and Performance: Ensures reliable measurement with MID 004 Class II (2%) accuracy level and a wide flow velocity range of 0-10 m/s.
- Versatile Measurement Capabilities: Monitors multiple parameters from a single device, including instantaneous flow rate, velocity, inlet/outlet temperature difference (ΔT), total calories, and total energy (kWh).
- Extensive Communication Infrastructure: Seamlessly integrates into SCADA and automation systems via RS485 (ModBus), M-BUS, Bluetooth (BLE), and Wi-Fi (ModBus TCP) networks.
- Advanced Data Logging: Safely stores up to 50,000 logs of historical data (total flow, date, time, temperature difference, calories, etc.) in its built-in flash memory with minimum 1-minute recording intervals.
- Industrial and Robust Design: Features a wide 12V-36V DC power supply range, reverse voltage and overvoltage protection, and a graphic LCD (128x64) display for clear, on-site data reading.

Description

The Enelsan Clamp-On Ultrasonic Heat and Flow Meter is an innovative, high-precision measurement device that can be easily installed externally without cutting or modifying the pipeline. It reliably measures fluid flow rate, velocity, and consumed heat energy (Calorie/Joule) across various pipe materials such as stainless steel, carbon steel, copper, and PPRC within a DN15 to DN50 diameter range. Featuring advanced wireless communication options, an integrated data logger, and MID 004 Class II accuracy, it is a professional solution designed to enhance the energy efficiency of your industrial facilities and automation systems.



Structure



Technical

Parameter	Specification
Pipe Size Range	DN15 - DN50
Flow Velocity Range	0 - 10 m/s
Pipe Material	Stainless Steel, Carbon Steel, Copper, PPRC, Other
Accuracy	MID 004 accuracy class II (2%)
Display	Graphic LCD (128x64)
Measurements	Flow rate, Velocity, Calorie/Joule, Inlet Temp, Outlet Temp, Temp Difference (ΔT), Total Energy
Communication	RS485 (ModBus), M-BUS, Bluetooth (BLE), Wi-Fi (ModBus TCP, RTU Over TCP)
Output Options	4-20mA, 0-20mA, 0-24mA, 0-10V, 0-5V, Digital Output (Pulse, Frequency), Alarm
Data Logging	Flash Memory, Min. 1 Minute interval, 50,000 log capacity
Power Supply	12V - 36V DC
Protection Circuit	Reverse voltage protection, Overvoltage protection, Isolated Input
Protection class	IP65

Contact us

Enelsan Istanbul Office Address

Şerifali, Barbaros Cd. No: 60, 34775 Ümraniye/İstanbul

Enelsan Factory 1 Address

Çerkeşli OSB Mahallesi İmes 4 Bulvarı No: 11 Dilovası/Kocaeli

Enelsan Factory 2 Address

Çerkeşli OSB Mahallesi İmes 14. Cadde No: 17 Dilovası/Kocaeli

Phone: +90 262 754 63 13

Fax: +90 262 754 93 93

sales@enelsan.com