

InSono employs state of the art technology derived from university research to realize high performance ultrasonic flow meters.



Spin-off partecipato dall'Università degli Studi di Firenze

2 **Clamp-on (Grip)**

Clamp-on technology permits easy installation in working plants and low maintenance costs. InSono realizes portable and settled versions.

3 **Portable (HandleGrip)**

Low weight and battery powered for an easy and comfortable use during plants check-up and repairs.

4 **All in one (HandleGrip-AO)**

The most versatile instrument of the series. It merges the characteristics of a portable instrument with the flexibility of both Doppler and time-of-flight measurement techniques.

5 **Settled (SteadyGrip)**

When pipes need do be constantly monitored, a settled solution is the key. The possibility to monitor remotely multiple pipes make this instrument the befitting solution for a large variety of contests.

6 **Time-of-flight (SteadyGrip-TF)**

7 **Doppler Effect (SteadyGrip-DE)**

8 **All in one (SteadyGrip-AO)**

9 **Insertion (IntraFlow)**

10 **Time-of-flight (IntraFlow-TF)**

11 **Doppler Effect (IntraFlow-DE)**

Clamp-on, Settled, Time-of-Flight

SteadyGrip-TF

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Benefits

- Easy installation: done without stopping the process and without any infrastructure modification.
- Minimal maintenance: No moving parts included in the instrument.
- Remote configuration and monitoring through a large variety of commands and protocols.
- Multiple sensors support for multiple pipe monitoring.
- Large graphic display for local checks.
- High accuracy measurements especially for extremely clean fluids.
- Capable to follow high velocity flows.

Applications

- Water Industry (Wastewater, Potable).
- Power Industry (Hydroelectric, Nuclear).
- Chemical and petrochemical industry.
- Alimentary Industry (Beverages, Oil, Dairy).
- HVAC (Heating, Ventilation and Air Conditioning).
- Pharmaceutical Industry.

Accessories

- Large set of transducers for pipes diameters from DN25 to DN 700.
- Enclosures for harsh environments and with different protection grades.
- Transducers optimized for pipes of different material such as steel, copper, iron and plastic.

Family overview

	SteadyGrip-TF Family
Enclosures	IP40, IP65, IP66 (NEMA1 to NEMA7)
Power Supply	90 to 240 Vac (50Hz – 60Hz)
Diameters	DN25 to DN700
Channels	2 to 8
Interfaces	RS-485, RS-232, MODBUS, 4-20mA, Ethernet
Measuring technique	Time of flight
Accuracy	1% (Calibrated)
Flow Velocity range	0.1 to 20 m/s bidirectional

Clamp-on, Settled, Doppler Effect

SteadyGrip-DE

When pipes need to be constantly monitored, a settled solution is the key. The possibility to monitor remotely multiple pipes make this instrument the befitting solution for a large variety of contests.



Benefits

- Easy installation: done without stopping the process and without any infrastructure modification.
- Minimal maintenance: No moving parts included in the instrument.
- Remote configuration and monitoring through a large variety of commands and protocols.
- Multiple sensors support for multiple pipe monitoring.
- Large graphic display for local checks.
- Single probe applications
- Best performances with unclean fluid including a large degree of impurities and gas bubbles.
- Turbulent/laminar flow detection.

Applications

- Water industry (Wastewater, Potable).
- Sludge disposal.
- Power Industry (Hydroelectric, Nuclear).
- Chemical and petrochemical industry (Debris and PIG detection).
- Alimentary Industry (Beverages, Oil, Dairy).
- HVAC (Heating, Ventilation and Air Conditioning).
- Pharmaceutical Industry.

Accessories

- Large set of transducers for pipes diameters from DN25 to DN 700.
- Enclosures for harsh environments and with different protection grades.
- Transducers optimized for pipes of different material such as steel, copper, iron and plastic.

Family overview

	SteadyGrip-DE Family
Enclosures	IP40, IP65, IP66 (NEMA1 to NEMA7)
Power Supply	90 to 240 Vac (50Hz – 60Hz)
Diameters	DN25 to DN700
Channels	1 to 4
Interfaces	RS-485, RS-232, MODBUS, 4-20mA, Ethernet
Measuring technique	Doppler effect
Accuracy	2% (Calibrated)
Flow Velocity range	0.1 to 12 m/s bidirectional