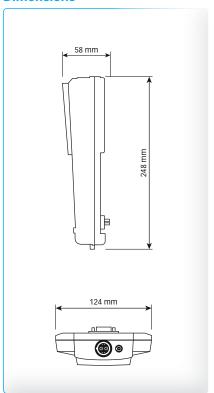
IFX-P200 – ULTRASONIC FLOW METER "CLAMP-ON" TYPE ■ PORTABLE INSTRUMENT



- Very robust and light portable Ultrasonic Flow Meter with graphic LCD.
- Non-intrusive portable measurement suitable for pipes in different materials and for diameters from DN10 up to DN3000 with a choice of sensors.
- Suitable for any liquid regardless conductivity, pressure or chemical characteristics.
- User friendly menu with setup assistance for easy and fast operations.
- Audible Sensor Positioning Assistant for easier sensor mounting.
- Measuring principle based on transit time with dual DSP technology for improved accuracy.
- Integral Data logger able to store up to 100.000 measurement, each including up to 10 units, and dedicated software for PC data download.
- Bidirectional measurement with totalizing function.
- Single sensor able to cover application from DN50 up to DN3000.
- Robust IP65 transport case.
- · Optional magnetic rail or mounting accessory.
- Optional integral wall thickness gauge.
- Operates also connected to mains through the battery charge port.

TECHNICAL DATA		
Measuring Principle	Transit time	
Velocity range	0,01 - 25 m/s	
Resolution	0,25 mm/s	
Repeatability	0,15% of measured value	
Accuracy (Flow/Volume)	±1-3% of measured value depending on application ±0,5% of measured value with process calibration against master meter	
Accuracy (velocity)	±0,5% of measured value	
Measurement rate	1 Hz as standard	
Response time	1 second	
Damping of reading	099 seconds (selectable)	
Solids and gas content in media	<10% in volume	
Enclosure	Robust ABS housing with rubber shock protector	
Protection rate	IP65 (EN60529)	
Ambient temperature	-10 +60 °C (for electronics)	
Supply	Internal rechargeable batteries	
Operation time	up to 24 hours with fully charged batteries	
Display	LCD graphic with back light	
Weight (Approx.)	0,65 kg (instrument only) 7 kg (transport case with instrument and sensors)	
Operating languages	English, Spanish, Italian (other on request)	

Dimensions



ULTRASONIC SENSORS FOR PORTABLE METERS



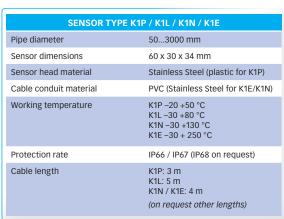


SENSOR TYPE K1N / K1E		
Pipe diameter	503000 mm	
Sensor dimensions	60 x 30 x 34 mm	
Sensor head material	Stainless Steel	
Cable conduit material	Stainless Steel	
Working temperature	−30 +130 °C (−30 + 250 °C for K1E)	
Protection rate	IP66 / IP67 (IP68 on request)	
Cable length	4 m standard (on request other lengths)	

SENSOR TYPE K4N / K4E		
Pipe diameter	10250 mm	
Sensor dimensions	43 x 18 x 22 mm	
Sensor head material	Stainless Steel	
Cable conduit material	Stainless Steel	
Working temperature	-30 +130 °C (-30 + 250 °C for K4E)	
Protection rate	IP66 / IP67 (IP68 on request)	
Cable length	2,5 m standard (on request other lengths)	

ULTRASONIC SENSORS FOR FIXED METERS

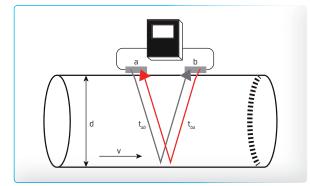






SENSOR TYPE K4L / K4N / K4E		
Pipe diameter	10250 mm	
Sensor dimension	43 x 18 x 22 mm	
Sensor head material	Stainless Steel	
Cable conduit material	PVC (Stainless Steel for K4E/K4N)	
Working temperature	K4L -30 +80 °C K4N -30 +130 °C K4E -30 + 250 °C	
Protection rate	IP66 / IP67 (IP68 on request)	
Cable length	K4L: 5 m K4N / K4E: 2,5 m (on request other lengths)	

Measuring principle



Transit time measuring principle.

Sensors "a" and "b" work alternately to send and receive ultrasonic

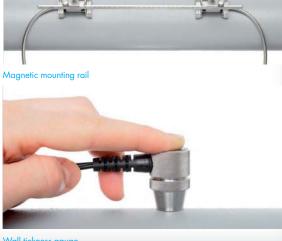
The sound waves "a" to "b" travelling with the flow move faster than those "b" to "a" travelling against it; the time difference is the flow velocity.

Figure shows typical V reflection mounting, where sensors are installed on the same external side of pipe, different installation ways can be used to manage different pipe size and material.

ACCESSORIES

A list of accessories are available for easy mounting or for improving the measuring results like:

- Integral wall thickness gauge for IFX-P200 or IFX-P210 for direct connection on the meter
- External wall thickness gauge also suitable for fixed meters
- Clamp on temperature sensors for energy measurement
- Clips and Mounting accessories
- Acoustical Paste
- · Extension cables







The ultrasonic flow meter specifically designed for water treatment and chemical industry.



Information shown in this brochure are not exhaustive, for detailed characteristics refer to individual data sheet.









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