IFX-F100 – ULTRASONIC FLOW METER "CLAMP-ON" TYPE ■ FOR FIXED INSTALLATIONS



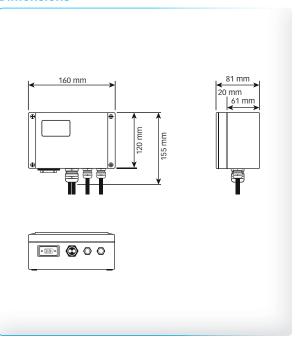


| TECHNICAL DATA | | |
|---------------------------------|--|--|
| Measuring Principle | Transit time | |
| Velocity range | 0,01 - 25 m/s | |
| Resolution | 0,25 mm/s | |
| Repeatability | 0,15% of measured value | |
| Accuracy (Flow/Volume) | ±1-3% of measured value depending on application ±0,5% of 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 | |
| Housing | Die cast Aluminium for wall mounted | |
| Protection rate | IP66 (EN60529) | |
| Ambient temperature | -10 +60 °C (for electronics) | |
| Power supply | 100240 VAC or 936 VDC | |
| Power consumption | <5 W | |
| Display | LCD graphic with back light | |
| Weight (Approx.) | 0,75 kg | |
| Operating languages | English, Spanish, Italian (other on request) | |

- Flow transmitter with backlight LCD display and 5 keys board programming.
- Non-intrusive fixed measurement suitable for pipes in different materials and for diameter from DN10 up to DN3000 with a choice of sensors
- Suitable for any liquid regardless conductivity, pressure or chemical characteristics.
- User friendly menu 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.
- Bidirectional measurement with totalizing function.
- Optionaly Digital or Analog outputs including Modbus, RTU e HART Protocol
- On request Energy calculation function including Pt100 sensors input module. Requires clamp-on Pt100 sensors.



Dimensions





ULTRASONIC SENSORS FOR PORTABLE METERS



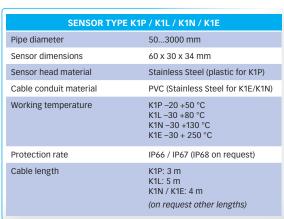


| SENSOR TYPE K1N / K1E | | |
|------------------------|--|--|
| Pipe diameter | 503000 mm | |
| Sensor dimensions | 60 x 30 x 34 mm | |
| Sensor head material | Stainless Steel | |
| Cable conduit material | Stainless Steel | |
| Working temperature | −30 +130 °C (−30 + 250 °C for K1E) | |
| Protection 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

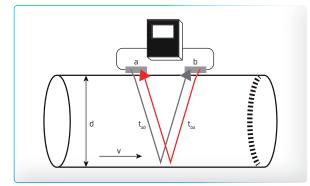






| SENSOR TYPE K4L / K4N / K4E | | |
|-----------------------------|--|--|
| Pipe diameter | 10250 mm | |
| Sensor dimension | 43 x 18 x 22 mm | |
| Sensor head material | Stainless Steel | |
| Cable conduit material | PVC (Stainless Steel for K4E/K4N) | |
| Working temperature | K4L -30 +80 °C K4N -30 +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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