

SonTek-IQ ACCESSORIES AND SPECIFICATIONS

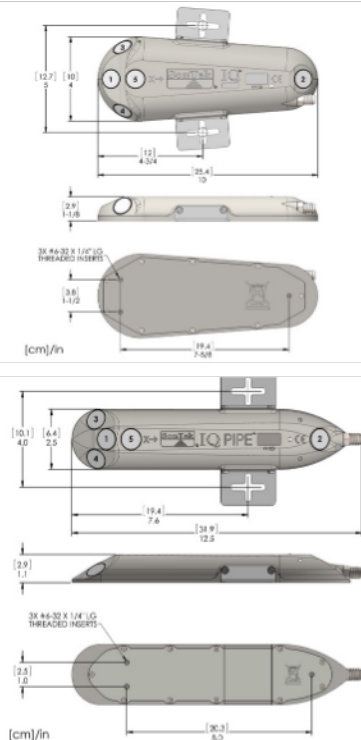


Custom-fit for the IQ Pipe, this easy to use mounting ring will make system installation a breeze. Fits pipe diameters from 16 in (41 cm) to 72 in (183 cm).



With the press of a single button, data is yours with the SonTek-IQ Flow Display. No PC required!

Product Dimensions



Specifications

Application

Velocity Measurement

- Sampling Range
- Number of Cells
- Cell Size

Advanced Data Reprocessing

Increased Number of Data Fields

SonTek-IQ Standard

SonTek-IQ Plus

SonTek-IQ Pipe

Regular Canals

All Open Channels

Pipes & Culverts

0.05 - 1.5 m (0.16 - 5 ft)

0.05 - 5.0 m (0.16 - 16 ft)

0.05 - 5.0 m (0.16 - 16 ft)

1

Up to 100

Up to 100

Dynamically integrated

2 cm - 10 cm (0.8 - 4 in)

2 cm - 10 cm (0.8 - 4 in)

N/A

✓

✓

N/A

✓

✓

Velocity Measurement

- Velocity Range
- Resolution
- Accuracy

±5 m/s (16 ft/s)

0.0001 m/s (0.0003 ft/s)

±1% of measured velocity, ±0.5 cm/s (0.2 in/s)

Water Level

- Vertical Beam Range
- Water Level Accuracy

0.05 - 1.5 m (0.2 - 5 ft) (Standard);
0.05 - 5.0 m (0.2 - 16 ft) (Plus/Pipe)

0.1% of measured depth or ±0.003 m (0.01 ft)
whichever is greater

- Pressure Sensor Range¹
- Pressure Sensor Accuracy

30 m (98 ft; 42 psi)

0.1% of full scale

Acoustics

- Acoustic Frequency
- (2) Along Axis Beams
- (2) Skew Beams

3.0 MHz

25° off vertical axis, along axis of channel

60° off vertical and 60° off center axis of channel (Standard/Plus);
37° off vertical and 45° off center axis of channel (Pipe)

Communications

RS232, SDI-12, Modbus, Analog (via optional Flow Display)

Data Storage

4 GB (approximately 1 year)

Operating/Storage Temperature

-5 to 60° C (23 - 140° F)

Temperature Sensor

Accuracy ± 0.2° C; Resolution ± 0.01° C

Tilt Sensor

Accuracy ± 1.0°

SmartPulse^{HD}

Yes

Power

- Input

9-15 VDC

- Consumption

0.5 - 1.0 W (0.02 when idle)

¹For use in pressurized pipes. Housing rated to 42 psi.



Founded in 1992 and advancing environmental science globally, SonTek manufactures acoustic Doppler instrumentation for water velocity measurement in oceans, rivers, lakes, harbors, canals, estuaries, industrial pipes and laboratories. SonTek's sophisticated and proprietary technology serves as the foundation for some of the industry's most trusted flow data collection systems. SonTek is headquartered in San Diego, California, and is a brand of Xylem Inc.

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