

SonTek-IQ

Specification	Standard	Plus	Pipe
Application ¹	Regular Canals	Open Channels	Pipes & Culverts
Acoustics Beams — Along-Axis (2)	25° off vertical axis, along axis of channel	25° off vertical axis, along axis of channel	25° off vertical axis, along axis of channel
Acoustics Beams — Skew (2)	60° off vertical and 60° off center axis of channel	60° off vertical and 60° off center axis of channel	37° off vertical and 45° off center axis of channel
Velocity — Sampling Range	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
Number of cells	1	Up to 100	Up to 100
Cell Size	Dynamic integrated	2 cm – 10 cm 0.8 - 4 in	2 cm – 10 cm 0.8 - 4 in
Velocity — Range	±5 m/s 16 ft/s	±5 m/s 16 ft/s	±5 m/s 16 ft/s
Velocity — Resolution	0.0001 m/s 0.0003 ft/s	0.0001 m/s 0.0003 ft/s	0.0001 m/s 0.0003 ft/s
Velocity — Accuracy	±1% of measured velocity, ±0.5 cm/s 0.2 in/s	±1% of measured velocity, ±0.5 cm/s 0.2 in/s	±1% of measured velocity, ±0.5 cm/s 0.2 in/s
Advanced Data Reprocessing	N/A	Yes	Yes
Increased Number of Data Fields	N/A	Yes	Yes
Vertical Beam Range ²	0.05 – 1.5 m 0.2 - 5 ft	0.05 - 5.0 m 0.2 - 16 ft	0.05 - 5.0 m 0.2 - 16 ft
Water Level Accuracy	0.1% of measured depth or ±0.003 m (0.01 ft), whichever is greater	0.1% of measured depth or ±0.003 m (0.01 ft), whichever is greater	0.1% of measured depth or ±0.003 m (0.01 ft), whichever is greater
Pressure — Range ³	30 m 98 ft; 42 psi	30 m 98 ft; 42 psi	30 m 98 ft; 42 psi
Pressure — Accuracy	0.1% of full scale	0.1% of full scale	0.1% of full scale
Communications	RS232, SDI-12, Modbus, Analog (via optional Flow Display)	RS232, SDI-12, Modbus, Analog (via optional Flow Display)	RS232, SDI-12, Modbus, Analog (via optional Flow Display)
Data Storage	4GB (approximately 1-yr)	4GB (approximately 1-yr)	4GB (approximately 1-yr)
Operating Temperature	-5 to 60°C 23-140°F	-5 to 60°C 23-140°F	-5 to 60°C 23-140°F
Temperature & Tilt Sensors	Yes	Yes	Yes

¹ The SonTek-IQ Series is not IS or ATEX certified. Do not use in areas with explosion risk.

² Water level measured primarily with vertical beam, with pressure sensor for redundancy.

³ For use in pressurized pipes. Housing rated to 42 psi.