

Technical Data

Velocity measurement	
Measurement method	Magnetic-inductive
Measuring range:	0 ... 6 m/s
Accuracy	
Accuracy at 0 ... 3 m/s	±2 % of meas. value ±0.015 m/s
Accuracy at 0 ... 5 m/s	±4 % of meas. value ±0.015 m/s
Zero stability	±0.015 m/s
Resolution	
0.001 at measured value	<10
0.01 at measured value	<100
0.1 at measured value	>100
Depth measurement (option)	
Absolute pressure sensor	with single point calibration
Measuring range:	0 ... 3.05 m
Accuracy:	The larger of ±2% of measured value or ±0.015 m
Methods for velocity measurement	
Streams:	1, 2, 3, 5, and 6 point measurement (ISO / USGS standards)
Conduits (canalization):	0.9 x Vmax; 0.2/0.4/0.8; 2D velocity integrating method
Conduit profiles:	Circular, rectangular, trapezoidal, 2/3 egg, inverted 2/3 egg
Methods for discharge	
ISO 748	Mid and Mean section method
Power supply	
Lifetime	18 hours typ. (20°C)
Data memory capacity	Up to 10 measuring locations (of 32 vertical profiles each)
Temperature	-20 ... +60°C (operation/storage)
Handheld unit display	
Graphic colour display, transfective	LCD 3.5", QVGA
Handheld unit interface:	USB Mini B type, 5-pin
Export format	TSV (Tab Separated Value) file format
Operating modes	Real-time velocity measurement, Discharge profile (stream/conduit)
Noise suppression	50 Hz, 60 Hz (adjustable)
Cable lengths	2 m, 6 m, 12 m, and 30 m
Material	
Sensor housing:	ABS, glass-fiber reinforced
Handheld unit:	Polycarbonate, moulded, by shock-absorbing elastomer (TPE)
Dimensions and weight	
Sensor body:	
L x W x H:	11.9 cm x 4.3 cm x 6.3 cm
Weight:	0.5 kg (with 6 m cable)
Handheld unit:	
L x W x H:	21.8 cm x 9.3 cm x 5.3 cm
Weight:	0.68 kg
IP class of protection	
Sensor:	IP68
Handheld unit:	IP67 (USB cap attached)