



Technical Data

Velocity measurement

- Measurement method: Magnetic-inductive
- Measuring range: 0 m/s ... 6 m/s
- 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
- *Steady state temperature and static non-flowing water

Methods for velocity measurement

- Streams:
1, 2, 3, 5, and 6 point measurement,
ice measurement (1 point and 2 points),
surface measurement according to ISO,
2-point measurement according to
KREPS

- 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 calculation

- EN ISO 748
- Mid section method
 - Mean section method

Power supply

- Lithium-ion battery
- Life: 18 hours typ. (20°C)

Data memory capacity

Up to 10 measuring locations
(of 32 vertical profiles each)

Temperature (operation/storage)

-20°C ... +60°C

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 20 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)