



Water flow meter for longterm data collection of velocity and discharge measurements

- Usage Type Fixed installation
- Measurement technology Acoustic
- Parameters measured Flow velocity
- Product Highlights

Side-Looking-Doppler for continuous discharge measurement in rivers and open channels. Discharge calculation based on velocity - index - method. Integrated vessel filter algorithm, Modbus interface and output of total volume of flow (max. interval 1 day).

- Measurement range
 - \pm 10 m/s
- Accuracy
 - \pm 1% of measured value \pm 0.5 cm/s

The OTT SLD is a measurement system for continuous measurement of water velocity and level in streams, rivers, and canals. The sensor employs the acoustic Doppler principle to reliably measure flow velocity in a variety of naturally occurring conditions, including during most flood events.











Flow velocity measurement	
Measuring range	±10 m/s
Accuracy	1% of measured value ± 5 mm/s
Number of measuring cells	9

Cell size / Blanking		
600 kHz	2 10 m∏/∏0.5 30 m	
1.0 MHz	1 4 m∏/∏0.3 15 m	
2.0 MHz	0.2 2 m]/[]0.1 8 m	

Beam angle / Max. profiling range*	
600 kHz	2.4° / 80 m
1.0 MHz	2.4° / 25 m
2.0 MHz	2.1° / 10 m
Minimum coverage	0.15 m (water level option)

Electrical data	
Supply voltage	12 16 V DC, typ. 12 V
Power consumption	50 500 mW, depending on measurement cycle

Water level measurement	
(optional)	
Measuring range	0.15 10 m
Accuracy	±3 mm, depending on stratification
Pressure cell (optional)	
Measuring principle	Piezo-resistive
Measuring range	0 10 m
Accuracy	±0.25 % FS

Interfaces	RS-232. SDI-12 or SDI-12 via RS-485. Modbus (optional)
Interfaces	PS-737 SDI-17 OF SDI-17 VIA PS-485 MOADUS (ODTIONAL)

Environmental conditions	
Operating temperature	-5 + 35 °C
Storage temperature	-20 +70 °C

45 52.2 CH X /.5 CH	Length x Ø	45 52.2 cm x 7.5 cm
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Housing material	POM

Wall bracket (accessory)	
Components	Bracket, protective cover, and C rail mount
Material	Stainless steel
Details	On request











Technical Data

OTT SLD - Side Looking Doppler Sensor



OTT SLD EasyUse Installation and service software	System setup, commissioning, reviewing and optimizing
OTT Prodis 2 (accessory) Calibration software *The beam angle is understood to be the measured angle with regard to the main axis. The maximum profiling range depends on the water profile, salinity, suspended matter	Determining correction factors, (velocity-index method and others), optimizing discharge calculation, managing stations
content etc.	









