



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)
Illielluces	K3-232, 3DI-12 01 3DI-12 VIU K3-403, MOUDUS (ODLIOHUL)

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

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

bischarge calculation within the unit of externating on a datatogger, e.g. Of Frietbe	Discharge calculation	Within the unit or externally on a datalogger, e.g. OTT netDL
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Technical Data

OTT SLD - Side Looking Doppler Sensor



OTT SLD EasyUse Installation and service software	System setup, commissioning, reviewing and optimizing
OTT Bradia 2 /saccessivity	
OTT Prodis 2 (accessory) Calibration software	Determining correction factors, (velocity-index method and others), optimizing discharge calculation, managing stations
*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	
content etc.	











