



## Surface Velocity Radar for Measuring Open Channel Flow

- Usage Type Fixed installation
- Product Highlights Identify data influenced by sensor movement (e.g., wind, traffic) using meta data from integrated vibration and tilt sensors
- Application fields Non-contact surface velocity radar
- Internal data logger No
- Rango de medición 0.08 ... 15 m/s (0.26 ... 49 ft./s)

OTT SVR 100 is a simple, non-contact, compact surface water velocity radar sensor. Designed for measuring flow in open channels and rivers where reliable velocity data is required continuously, during floods or periods of high concentrations of suspended sediments.

The sensor is mounted above the water surface, away from floating debris using a flexible bracket for vertical or horizontal installation. Velocity measurements and sensor status information from the integrated vibration and tilt sensor is available via SDI-12 over RS-485 and Modbus. It is also compatible with OTT Prodis 2 software for system calibration.









## **Technical Data** OTT SVR 100



Measurement device for	Contactless velocity measurement
Measurement Range*	0.08 15 m/s (0.26 49 ft./s)
	* Depending on flow conditions
Resolution	0,1 mm/s , (0.0001 ft)
Accuracy	0.08 4 m/s: $\pm 2\%$ of the measured value 4 15 m/s: $\pm 2.5\%$ of the measured value
Radar opening angle	12° Azimuth
	24° Elevation
Detection distance	1 50 m (3.3 164 ft.)
Distance to water	0.5 25 m (1.64 82 ft.)
Radar frequency	24 GHz (K-band)
mada. nequendy	2 : 0:12 (:: 0:110)
Interfaces	
Serial Interfaces	SDI-12, RS-232, RS-485
Protocols	SDI-12, MODBUS
	2 27 / 22
Power supply	9 27 VDC
Power/current consumption	
Power/current consumption active	typ. < 112 mA at 12 VDC
· · · · · · · · · · · · · · · · · · ·	typ. < 112 mA at 12 VDC < 250 mA
active Maximum Current	
active Maximum Current  Dimensions	< 250 mA
active Maximum Current	< 250 mA  134,5 x 114,5 x 80 mm (5.3 x 4.5 x 3.2 in) (without mounting
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active Maximum Current  Dimensions (LxWxH)  Material Housing Radom	<pre>134,5 x 114,5 x 80 mm (5.3 x 4.5 x 3.2 in) (without mounting bracket)  ASA &amp; Aluminium TFM PTFE 1.4301 (V2A)  Lateral axis: ±90 °</pre>
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Housing IP 68









