



## 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
- Measurement range
   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.

Measurement device for

Contactless velocity measurement









## **Technical Data**OTT SVR 100



Measurement Range	0.08 15 m/s (0.26 49 ft./s)
Resolution	0,1 mm/s , (0.0001 ft)
Accuracy	± 2% of 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)
Interfaces	
Serial interfaces	RS-232, RS-485
Protocolls	SDI-12, MODBUS
Power supply	9 27 VDC
Power/current consumption	
active	typ. < 112 mA at 12 VDC
Maximum Current	< 250 mA
Dimensions	
Dimensions (LxWxH)	134,5 x 114,5 x 80 mm (5.3 x 4.5 x 3.2 in) (without mounting
(LAVVAI I)	bracket)
Material	,
Housing	ASA & Aluminium
Radom	TFM PTFE
Mounting	1.4301 (V2A)
Rotation range of swivel mount	Lateral axis: ±90 °
Rotation range of swivet mount	Longitudinal axis: ±15 °
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Cable length	10 m (32.8 ft)
Weight	
with mounting bracket	820 g (1.81 lbs.)
without mounting bracket	1530 g (3.37 lbs.)
Temperature, in operation	-40° +85°C (-40° +185° F)
Housing	IP 68





