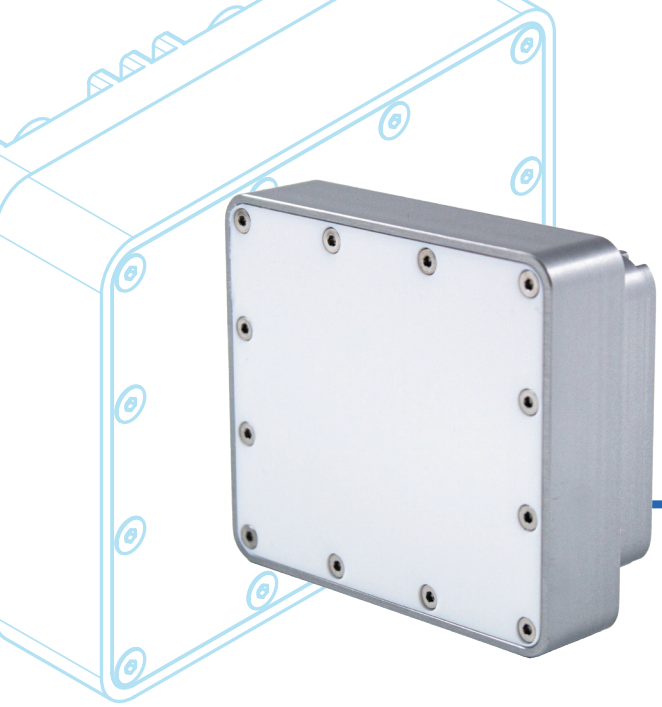


OPEN CHANNEL SURFACE VELOCITY RADAR METER

VX60

- Contactless surface velocity measurement
- 4D radar processing increases sensitivity while eliminating environmental disturbances
- Robust, compact, IP68 aluminium or stainless steel enclosure

Applications

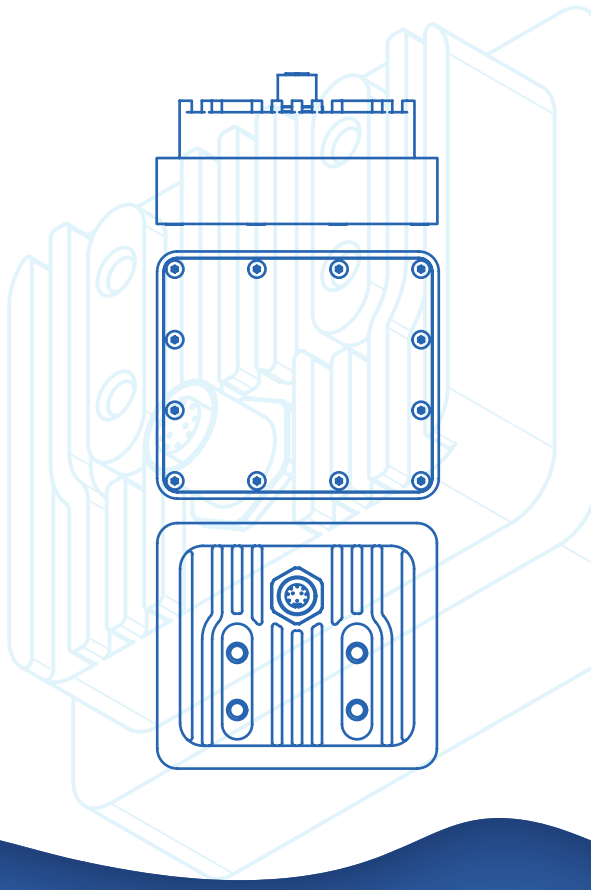
- Early flood warning systems
- Flow monitoring in irrigation channels
- Accurate discharge monitoring in rivers
- Sewage and waste water discharge measurement

Product Description

The Geolux VX60 is a high-performance radar sensor utilizing advanced FMCW 4D radar technology to provide measurement of the surface flow velocity. Designed for non-contact measurement applications, the VX60 enables rapid deployment above water surfaces while minimizing maintenance requirements.

The VX60 employs advanced 4D radar processing that delivers superior performance compared to conventional Doppler-based surface velocity radars. While traditional Doppler sensors are susceptible to measurement degradation from ambient interference, precipitation, and structural vibration, the VX60's signal processing architecture ensures consistent, high-accuracy velocity measurements under all environmental conditions.

The radar operates in V-band (60 GHz) and provides flow speed readings over serial RS-232, RS-485 Modbus and SDI-12 interfaces. The instrument is compatible both with Geolux and 3rd part dataloggers. An integrated MEMS sensor provides the data for automatic tilt angle compensation.

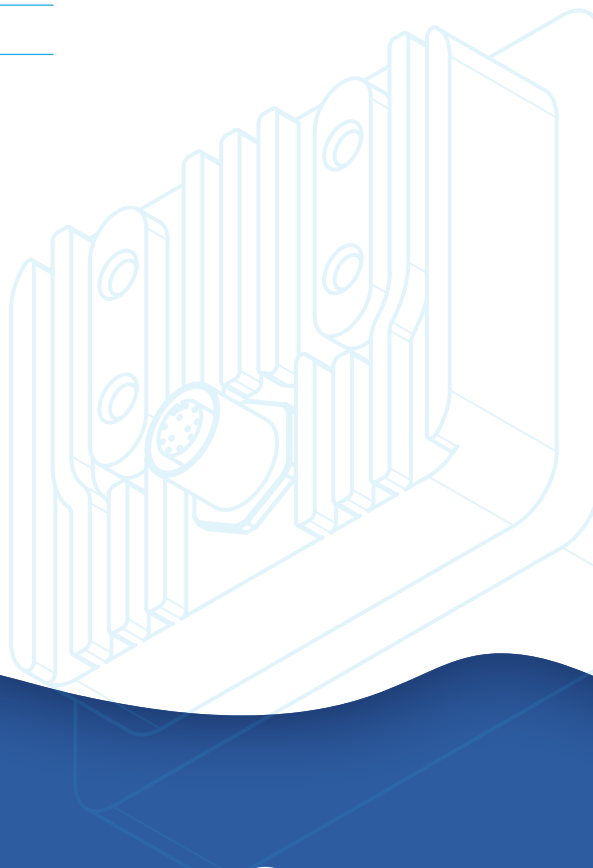


VX60

Detailed Specifications

Radar Type	V-band 60 GHz FMCW radar
Detection Distance	Up to 25 meters above the water
Speed Range	0.02 m/s to 16 m/s
Resolution	0.001 m/s
Accuracy	1% of measured value (in full measurement range)
Sampling Rate	1 sps
IP Rating	IP68
Interfaces	RS-232 / NMEA RS-485 / Modbus Rtu SDI-12 Analog 4-20 mA
Connector	M12 circular 12-pin
Input Voltage	9 to 27 VDC
Power Consumption	1000 mW operational 30 mW standby
Maximal Current	< 500 mA
Operating Temperature Range	-40°C to +85°C
Operating Humidity Range	0 – 100% RH

FCC & CE **APPROVED**
MADE IN **EU**



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