



Advantages

- Contactless measurement
- Improved accuracy in combination with ultrasonic horizontal profile scanner
- Optional surcharge sensor available
- Installation without interrupting processes
- Maintenance-free
- Area correction by sediment detection

NivuFlow 550
NivuFlow 7550

Radar Flow Meter
+ Surcharge Sensor
+ Sediment Detection
+ Automatic Calibration



NivuFlow 550 Radar Flow Measurement

The NIVUS radar flow measurement system offers a contactless solution for open channel flow. Our measurement system operates with continuous wave Doppler and provides easy installation and maintenance. The NivuFlow Series is suitable for all kind fluids. Our modular approach offers flexibility for best results in any application.

Determination of surface velocity

- Low maintenance through contactless radar sensor
- Easy installation and operation
- Ideal for use with all liquids, even aggressive / abrasive media

Effortless use especially for difficult applications

- Measurement places with high pollutant load and sedimentation
- Measurement places featuring bed load / debris
- Measurement places with installation restrictions in the channel
- Shooting discharge at low flow levels and high velocities

Extended range of application with optional surcharge sensor

- Uninterrupted and reliable flow measurement during surcharge events
- Sediment detection with ultrasonic level measurement in surcharge conditions



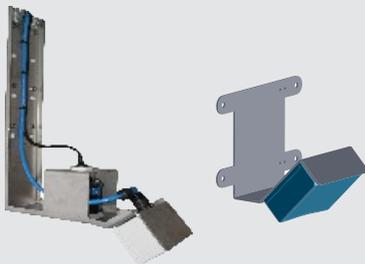
Modular System

Our Radar flow measurement system is modular. Therefore we can offer the suitable solution for each application.

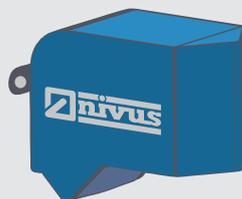
Your Advantages

- Ideal level measurement on the correct location
- Choose the optimum level measurement method for the application
- Optional ultrasonic measurement for reliable flow measurement in surcharge conditions
- Enhanced accuracy by redundant ultrasonic flow measurement

Radar flow sensor fastening variants



Radar flow compact module



Ultrasonic surcharge sensor



Radar Ultrasonic Hydrostatic



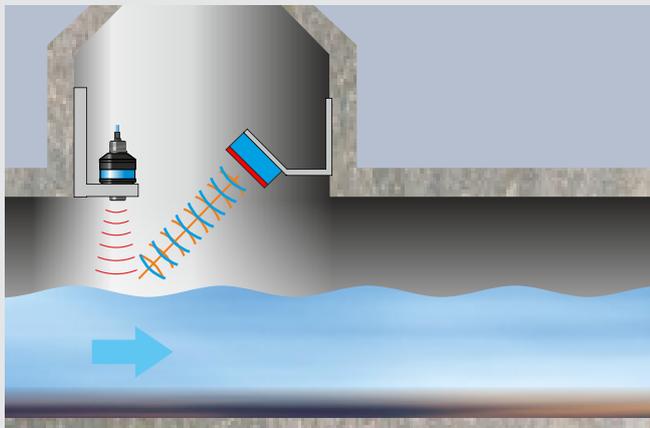
NivuFlow 550 NivuFlow 7550



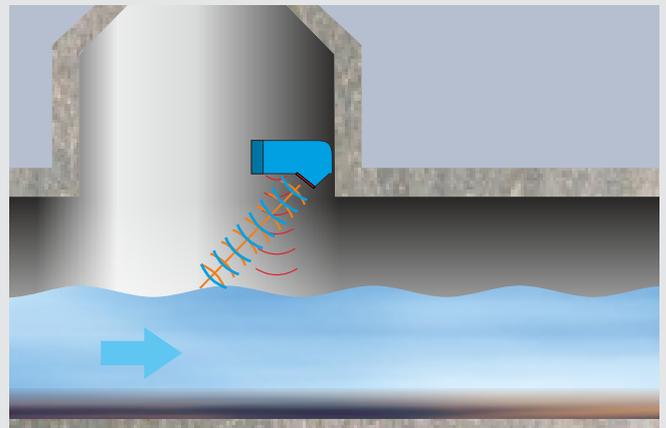
IP 68 field housing

Installation Examples

Standard Installations

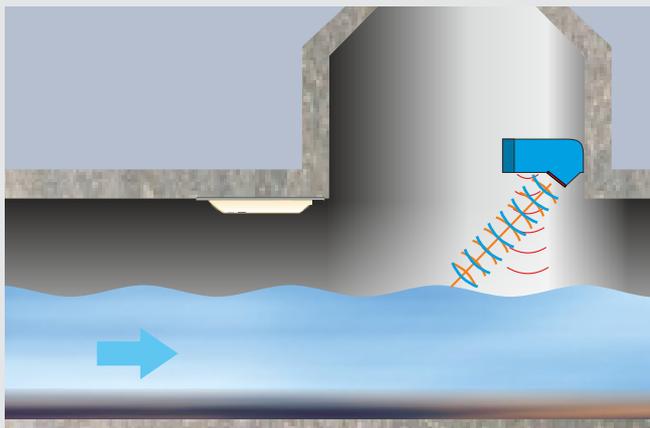


Modular radar flow measurement installation with separate ultrasonic level measurement

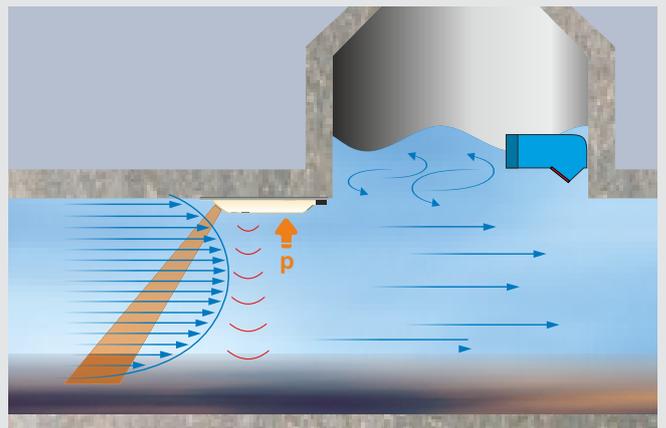


Compact radar flow measurement with ultrasonic or radar level measurement in single housing

Radar Flow Measurement and Surge Flow Measurement



Normal conditions: Radar flow measurement with combined ultrasonic or radar level measurement in operation. The surcharge sensor is not active at low level flow.



Surcharge conditions: Ultrasonic flow measurement detects flow profile with combined hydrostatic level measurement. An additional ultrasonic level measurement detects sediments on ground level.

Hybrid Flow Measurement with Surface Radar and Ultrasonic Profile Scanner

Your Advantages

- Redundant flow measurement
 - Contactless Radar surface velocity measurement
 - Ultrasonic sideways velocity profile sensor
- Two independent flow measurement technologies increase the accuracy and reliability
- All sensors are above the area of sedimentation,
- No maintenance
- Reliable measurement independently of wave formations, storm conditions as well as in low flow level circumstances

