

Self-Sufficient Flow Metering using Radar

NIVUS introduce battery-powered system for contactless metering in part-filled channels

The manufacturer's NivuFlow Mobile 550 detects the flow rate in water by using CW-Doppler-Radar. Latest hydraulic models allow for highly accurate flow measurements within usual channel shapes. Due to sophisticated power management and rechargeable batteries with high capacities the system is perfectly suited for long-term measurements as well as for continuous metering without the appropriate infrastructure. Intuitive operation via smartphone or other mobile devices in connection with a start-up wizard enable very quick and easy commissioning of the measurement system.

NivuFlow Mobile is equipped with an integrated LTE modem with worldwide coverage. The manufacturer's consistent IoT concept enables operators automatic data transmission including options for visualisation and logging in connection with the NIVUS WebPortal. Individual alerting as well as the indication of the remaining operation time in days are the basis for precisely scheduled maintenance measures and failure-free measurement operation.

Like the other devices in the NivuFlow Mobile series, the latest device is designed from the ground up for outdoor use. The measurement will not interrupt even if the transmitter is flooded permanently (IP68). Explosion protection for ATEX Zone 1 is optionally available. A typical application for the NivuFlow Mobile 550 is flow metering in channel networks, in irrigation channels or in tributaries and generally as soon as no measurement system can be installed in the medium.

Contactless flow measurement with NivuFlow Mobile 550

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The NIVUS group is a leading developer, manufacturer and supplier of measurement instrumentation and process control systems for the water industry. The company for over 50 years provides level and flow metering systems and continuously develops application-oriented measurement solutions. Moreover, the manufacturer for approx. 20 years provides control and telecontrol systems and today has a consistent platform for automation, software and cloud services. Based in Eppingen, Germany, NIVUS operate nine international subsidiaries and collaborate with over 40 distributors across the world.



NIVUS GmbH
Im Taele 2, 75031 Eppingen,
Germany
HRB Stuttgart No. 101832
VAT No. DE145779515
German Fiscal No. 65204/39902
WEEE Reg. No. DE75724647

Bank Details:
Volksbank Kraichgau
Wiesloch-Sinsheim eG:
IBAN DE87 6729 2200 0011 5215 17
BIC/Swift GENODE61WIE
Kreissparkasse Heilbronn:
IBAN DE12 6205 0000 0000 0059 26
BIC/Swift HEISDE66XXX

Contact Person:

NIVUS GmbH

Martin Mueller

Im Taele 2

75031 Eppingen

Germany

+49 (0) 7262 9191-832

martin.mueller@nivus.com