

NivuFlow Mobile 550

For contactless flow metering with Radar-Doppler in part filled pipes and channels. The well thought-out power management and the built-in modem allow long-term measuring with automatic data transmission.

NivuFlow Mobile 550 permits contactless flow metering in a variety of different situations. Hydraulic algorithms determine the exact flow profiles for almost all shapes.

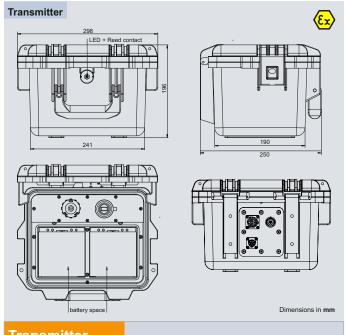
The modern operating concept via web browser in connection with tablet, smartphone etc. is intuitive and enables quick commissioning. Here, a quick start assistant guides through the most relevant parameter settings. While setting parameters, the remaining

operation time is indicated in days. The optional built-in modem provides automatic data transmission via e-mail, FTP or to the NIVUS WebPortal. The energy-efficient system allows for accurate scheduling of maintenance visits and very long operation times.

Typical Applications

- WWTP intakes
- Irrigation channels
- Tributaries

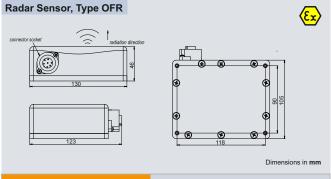




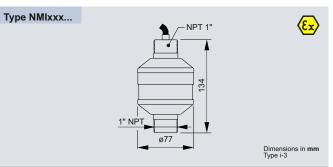
Irai	151	mit	tei	
Measi	ırem	ent	nrin	10

Measurement principle	Doppler Radar	
Power supply	• 2 x rechargeable batteries 12V/15 Ah, lead gel	
	 charger 100 - 240 V AC / 50 to 60 Hz / 50 VA 	
Enclosure	Material: HPX high-performance synthetic resin	
	Weight: approx. 4.7 kg	
	(without battery and hoop guards)	
	Protection: IP68 closed / IP67 open	
Operating temperature	- 20°C to + 50°C / - 15°C to + 50°C for Ex-Zone 1	
Storage temperature	- 20°C to + 70°C	
Max. humidity	90 %, non-condensing	
Display	via mobile device; status LED (RGB)	
Ex-Approval	Optional: II 2G Ex eb ib [ib] mb IIB T4 Gb	
	TÜV 17 ATEX 196722 X / IECEx 18.0008X	
Operation	Magnetic switch, via WiFi using smartphone,	
	tablet, notebook	
Inputs	 1x socket for OFR-Radarsensor or 	
	ConnectorBox for external mains adaptor or	
	power supply as well as:	
	 2x 0/4 - 20 mA (active/passive) 	
	 1x 0/4 -20 mA (passive) 	
	 1x active digital input 	
	• 1x level sensor socket	
	• 1x antenna socket	
Outputs	via ConnectorBox	
	 1 x analog output 0 - 10 V 	
	 1 x potential-free digital output 	
	as SPDT / bistable	
	• 1 x USB or readout of values via USB stick	
Storage cycle	5 sec 360 min, continuous, cyclic or event-based	
Data memory	Internal memory, covering a period of 1.5 years	
	at a measurement interval of 5 minutes	
Data transmission	Via plug-in USB stick	
	• Via WLAN	
	Via GPRS, UMTS, LTE	
Operation time	~1 year on one battery charge* (two batteries)	

^{*}calculated value with storage cycle 60 minutes and daily data transmission. Value may vary according to measurement spot or age of batteries



OFR Radar Senso	or
Measurement method	Radar - 24 GHz - ISM band
Measurement range	± 0.15 m/s - 15 m/s
Temperature range	-30 °C to 70 °C
	-20 °C to 60 °C in ATEX Zone 1
Measurement distance	0.05 m - 10 m
to surface	
Minimal wave height	~ 3 mm
Protection	IP 68 - completely encapsulated
Enclosure material	Polyoxymethylene (POM)
Interface	RS485 for connection to NivuFlow or
	NivuFlow Mobile transmitters
Measurement uncertainty	± 0.5 % of raw measurement value;
	± 0.01 m/s (rel. to surface velocity)
Ex Approval	II 2 G Ex ib IIB T4 Gb; TÜV 16 ATEX
	185271X;IECEx 16.0034X



Series Level Se	1" NPT 1"	Dimensions in mm Type I-3	
01.100 20101 00			
asurement method	Ultrasound		
asurement range	0.125 m to 10 m (15 m	optional)	
ver supply	10 - 28 V DC		

Measurement method	Ultrasound
Measurement range	0.125 m to 10 m (15 m optional)
Power supply	10 - 28 V DC
Outputs	HART® – loop powered (2-wire)
	4 - 20 mA (3.8 - 22 mA)
Functions	level, distance, empty space, volume
	and linearisation using 16 breakpoints
Operating temperature	-40 to 80 °C
Configuration	PC software for parameter setting, echo
	evaluation, linearisation and agitator
	avoidance
Sensor body material	Valox 357 PBT, optional: PVDF
Protection	IP68
Ex Approval	II 2G Ex mb IIC T4 Gb / II 1G Ex ia IIC T4 Ga
	TRAC12ATEX0031X / TRAC12ATEX0030X
Startup time	4 sec. typical
Measurement uncertainty	0.25 % (Type i-3)
Resolution	2 mm (Type i-3)

The complete technical specifications can be found in the Technical Documentation or on www.nivus.com

