

Typical applications: flow measurement in stormwater tanks, channel networks, irrigation channels, pit water purification plants, stream water etc.

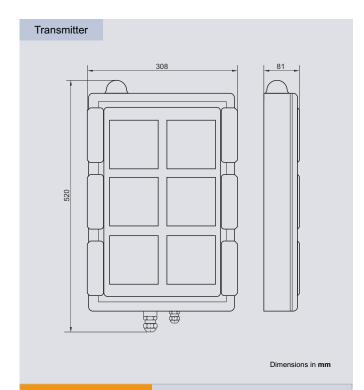
NivuLog SunFlow

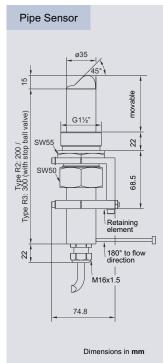
The NivuLog SunFlow is a self-sufficient, solar-powered flow measurement station independent from mains power with integrated GPRS data transmission. The discontinuous flow measurement is suited for slight to heavy polluted media in open channels, flumes as well as in part filled and full pipes.

The NivuLog SunFlow is designed for flow measurement, storage and transmission of data in locations without mains power supply. The very robust aluminium cast enclosure with IP68 protection is covered with armoured glass and contains all necessary components such as data logger, modem, charging control and rechargeable batteries. Thanks to the compact construction it is perfectly suited for use in free and rough terrain. A Doppler flow velocity sensor with integrated level measurement is connected directly to the system.

Moreover there are 4 multifunctional inputs (analog/digital) available. These inputs allow to connect e.g. external level measurements or float switches for measurement release. Readings are saved in free adjustable cycles and are transmitted to the data recording system "Device to Web" via GPRS. The measurement place parameters can be set via D2W as well. This allows a quick start-up. The NivuLog SunFlow represents an interesting and cost-efficient alternative to the conventional control cabinet with solar panel.

Specifications





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Power supply	10 W solar panel and 2 rechargeable
F () 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	batteries (13.6 Ah each)
External additional	7 to 30 V DC (typical 170 mA/12 V)
charging voltage	Solar panel can be supported by external voltage
(optional)	during charging process
Enclosure	material: Aluminium casting, armoured glass
	weight: 15 kg (incl. batteries)
	protection: IP68
Operating temperature	-40 to +60 °C, 15 to 90 % rH, non-condensing
Storage temperature	-40 to +85 °C
Antenna	permanently mounted dome antenna
Sensor connection	1 active compact Doppler sensor Type KDS
	connectable (flow velocity; combi sensor with
	additional level measurement)
Multi-functional inputs	4 x analog or digital (can be mixed):
	0 to 20 mA; 4 to 20 mA; 0 to 2 V; 0 to 10 V;
	frequency; digital; day counter; interval counter
Outputs	1 x switchable sensor power supply
	24 to 31 V DC, max. 41 mA
Data memory	internal flash memory for up to 14.030
•	measuring cycles
Data transmission	using GSM/GPRS guad band modem to
	according Device to Web server
SIM	permanently integrated long-life SIM chip
Accessories	, , , , , , , , , , , , , , , , , , ,
Mast holder set	robust mast holder set for fastening and
	adjustment of the measurement station on a mast
	with 70 - 90 mm diameters, adjustable angles for
	20°, 29°, 37° or 45°
Material	stainless steel 1.4571
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Sensors					
Measurement principle	Doppler (flow velocity) piezo-resistive pressure measurement (level measurement)				
Meas. frequency	wedge sensors 1 MHzpipe sensors 750 kHz				
Protection	IP68				
Operating temperature	-20 °C to +50 °C				
Operating pressure	combi sensor with pressure measurement (only wedge sensor): max. 1 bar sensors without pressure measurement: max. 4 bar				
Cable length	10/15/20/30/50 m pre-configured (with pressure measurement cell max. 30 m)				
Constructions	 wedge sensor, fastening on channel bottom pipe sensor incl. retaining element for installation in pipes using nozzles 				
Flow Velocity Measuren	nent				
Measurement range	-600 cm/s to +600 cm/s				
Meas. uncertainty	±1 % of final value of measurement range				
Zero point drift	absolutely stable zero point				
Sonic lobe	±5 degrees				
Temperature Measurement					
Measurement range	-20 °C to +60 °C				
Meas. uncertainty	±0.5 K				
Level Measurement - Pressure					
Measurement range	0 to 350 cm				
Zero point drift	max. 0.75 % of final value (0 to 50 °C)				
Meas. uncertainty	(standing medium) <0.5 % of final value				

You can find more information in the instruction manual or on www.nivus.com



