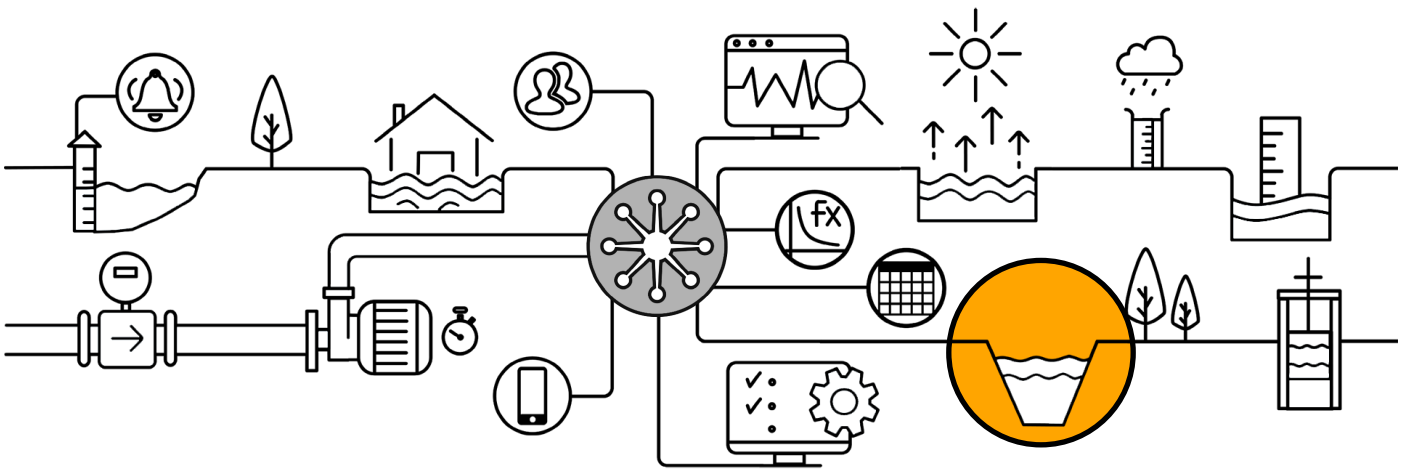


What gets measured, gets managed.

INNOVATIVE SOLUTIONS FOR COST EFFECTIVE
WATER RESOURCES MEASUREMENT, MONITORING & ALERTING

VIGIFLOW

Open Channel Flow



In many cases, where downstream does not affect the upstream of water channel, or when water measurement structures such as various types of flumes are installed on the channel, it is possible to measure changes in water level and convert it to flow and volume with acceptable accuracy and using the existing standards.

VIGIFLOW is a telemetry device that measures water level changes with the help of Archimedes' buoyancy rule and converts it to flow with the help of standard relationships.

VIGIFLOW is able to measure and record the level of water and calculate it to flow, and transmit these data via SMS and GPRS.

VIGIFLOW settings can be changed with the help of **VIGISOFT** software through on-site and remote communication ports.

Data sent via **VIGIFLOW** can be received and managed with the help of a client / server software called **WaterQuey**.

The features of **VIGILEVEL** are simplicity, low cost, very low energy consumption, simple calibration, resistance to sediment and corrosion, simple installation and anti-vandalism.



VIGIFLOW (Data Sheet)

Open Channel Flow

TECHNOLOGY

Archimedes buoyancy Rule & Stage-Discharge Relation / Measurement Structure Formula

SENSOR

Water Level	Class C3, Weight sensor/ Water level, Flow, Volume : Analogue, IP65, Connector cable:5×0.2 mm L300 mm, IP67
Water Level Accuracy	0.1% F.S.
Flow uncertainty	5-10% Up to calibration
Volume uncertainty	2-5% Up to calibration
Temperature Accuracy	0.5° C

Water LEVEL, FLOW, VOLUME SENSOR ACCESSORIES

Hanging Pipe Diameter	25 mm (~600gr / meter)
Hanging Pipe Material	Special polymer alloy, Sediment & Corrosion resistant
Rope	Galvanized Steel, weight: 250gr / 100 meter
Other Accessories	3 rings and carabineers galvanized , 4 galvanized screws 6 mm
Wall mounting tool /screw	Special tool, L45×W15×H120 mm & 4× M6/ M12

RTU

Logging Memory	1000 Records (Up to 20000 Optional)
Transferring Data	GSM, GPRS, APN each one to 2 address (Preferably-combined methods)
SIM CARD Socket	Nano
GSM Antenna	Normal: 2db, Strong 5 db (Optional)
Converting Data	Converting water level data to floe and volume in open channel
Screen (Optional)	2*8 character
Trigger Key	Magnetic key for on-site reading and data transmission
Internal Battery	1×AA 3.6 VDC, Lithium 2.2Ah
Eternal Battery	8-18 VDC, Recommended: 8×AA 1.5 VDC Alkaline with battery case
Inputs / Output (Optional)	Load Cell Analog
	Input: 2×Voltage / 2×Analog 4-20mA (Accuracy 0.1% F.S.)
	Input: 2×I/O / 2×Pump on/off
	Input and Output: RS485 (USB connector)
Glandes input	IP68
Data Logger Configuration Cable	Connector USB, 1 m Length, Anti Noise
Housing Material	ABS, IP66
Size	L120×W120×H110 mm Cream color with transparent door
Weight	With electronic board and battery: ~600 gr
Operation Temperature	- 20 to 65 ° C

SOFTWARE

VIGISOFT	Control / Setting
WaterQuery	Data Acquisition / Presentation / Monitoring



VIGIFLOW (Features & Advantages)

Open Channel Flow

ENCLOSURE

Material	Steel-Polymer, Color: Blue electrostatic color
Size	Cylinder shape: D160× H230 mm
Weight	~3.7 Kg including housing & sensor

INSTALLATION

Housing	On the wall with two 4 mm screws / Shelter inside
Enclosure (Optional)	Welding on stilling well

OPERATION FEATURES

Easy for pulling out the tube and cable from inside of the stilling well
Ability to hanging accessories inside the well during repairing
Special wall-mounting accessories
Lightweight, compact and portable compared to other enclosures
Reduce the risk of equipment falling into the well
Easy for replacement of spares
Hidden lock
Non-attraction shape
Ability to install on a variety of wells and stilling wells
No interference in radio waves to send data via GSM
Anti-Vandalism enclosure
Resistance against salinity and corrosion
No need for expensive mechanical installations
Wide range of chargeable or non-chargeable batteries, Available everywhere
No need for earthing system
No need for solar cells and controller charger
No AC power required
Low energy consumption
Battery replacement case

ADVANTAGES

 Simple	 Easy Calibration	 Corrosion and Salinity Resistant	 Protected Against Vandalism
 Cost Effective	 Stable	 Easy Maintenance	 Appropriate Measuring Range