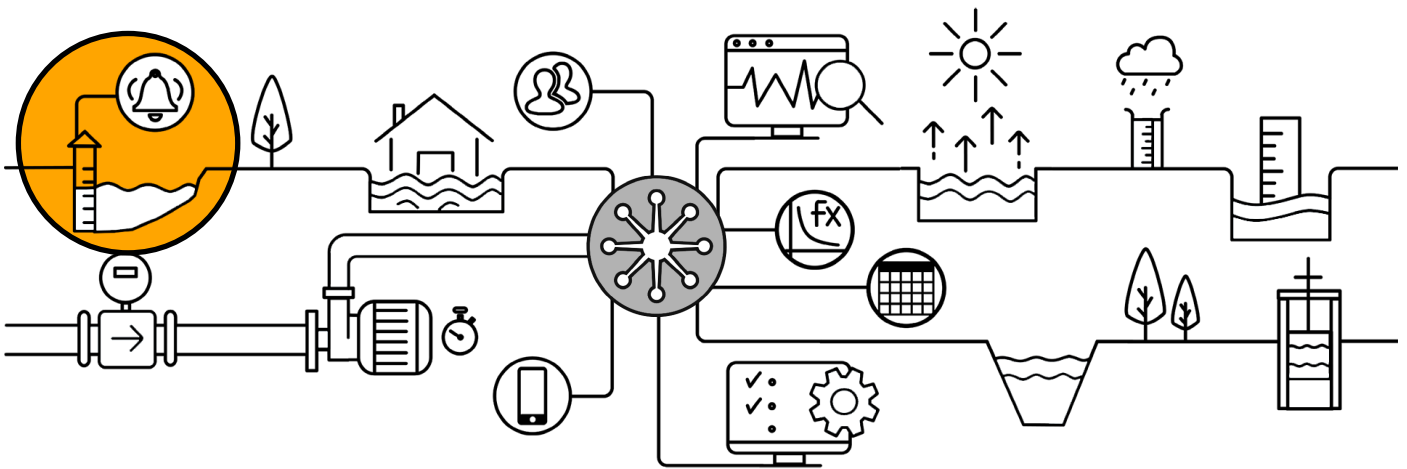


What gets measured, gets managed.

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

VIGIRIVER Level & Flow in River



One of the most stable hydrometric methods in rivers is the use of stage-discharge method, so the water level changes must be measured, then according to the standard and with the help of stage-discharge relationship, these measurements are converted into discharge.

VIGIRIVER 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.

VIGIRIVER is able to measure and record the level of water and its calculation to the discharge, and transmit and alert these data via SMS and GPRS.

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

Data sent via **VIGIRIVER** can be received and managed using a client / server software called **WaterQuey**.

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



VIGIRIVER (Data Sheet)

Level & Flow in River

TECHNOLOGY

Archimedes buoyancy Rule & Stage-Discharge Relation

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	-10% Up to calibration
Volume uncertainty	-5% Up to calibration
Temperature Accuracy	0.5° C

Water LEVEL / FLOW 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 volume in tanks, lakes, manholes & pools
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 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×W160×H160 mm Cream color with transparent door
Weight	With electronic board and battery: ~1000 gr
Operation Temperature	- 20 to 65 ° C

SOFTWARE

VIGISOFT	Control / Setting
WaterQuery	Data Acquisition / Presentation / Monitoring



VIGIRIVER (Features & Advantages)

Level & Flow in River

ENCLOSURE (Optional)

Material	Steel-Polymer, Color: Blue electrostatic color
Size	Cylinder shape: D220× H210 mm
Weight	~6 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