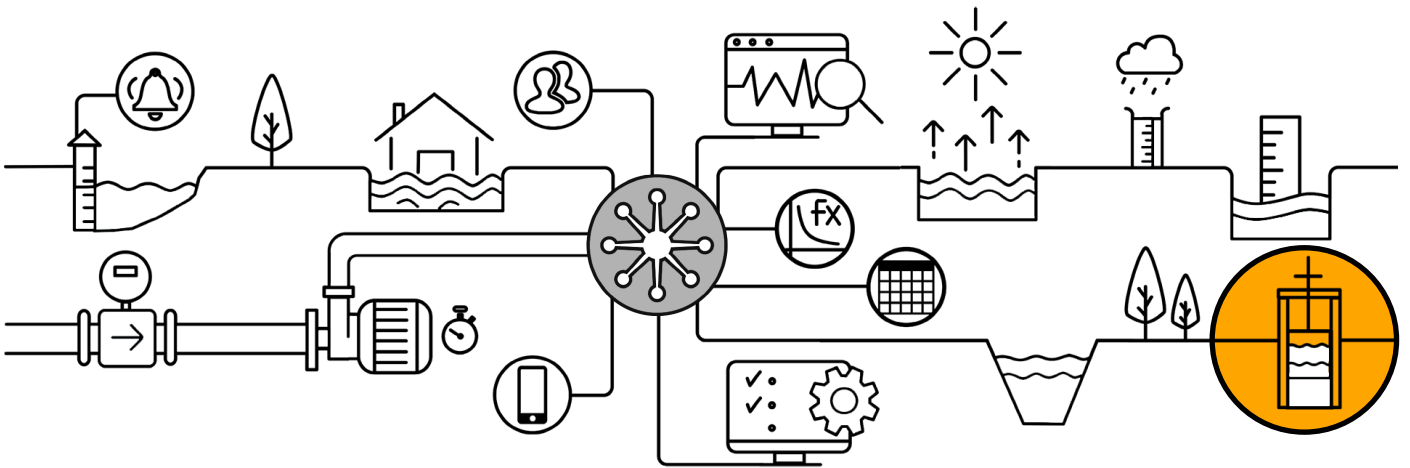


What gets measured, gets managed.

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

VIGIGATE

Water Gate Opening Rate



VIGIGATE is one of the innovations of **ABTIN TD** company that measures the opening rate of water channel gates.

Combining the use of **VIGIGATE** and **VIGILEVEL** to measure changes in the opening rate and water level of open channel gates can be a good way to measure flow in gates.

VIGIGATE is a telemetry device that able to measure and record changes in the opening rate of water channel gates and then transmit and alert via SMS and GPRS.

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

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

The features of **VIGIGATE** are simplicity and speed of installation, low cost, very low energy consumption, anti-vandalism and its simple verification.



VIGIGATE (Data Sheet)

Water Gate Opening Rate

TECHNOLOGY

Hooke's Law

SENSOR

Opening Rate of Water Gate	Class C3, Weight sensor/ Opening rate: Analogue, IP65, Connector cable :5×0.2 mm L300 mm, IP67
Opening Rate Accuracy	0.1% F.S
Temperature Accuracy (Optional)	0.5° C

RATE OF OPENING GATE SENSOR ACCESSORIES

Spring Diameter	Up to Maximum of Water Gate Displacement
Spring Material	Stainless Steel alloy, Sediment & Corrosion resistant
Rope	Galvanized Steel, weight: 25gr / 10 meter
Other Accessories	3 rings and carabineers galvanized , 4 galvanized screws 6 mm
Wall mounting tool /screw	Special tool & 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 hook's Force to opening rate
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×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



VIGIGATE (Features & Advantages)

Water Gate Opening Rate

ENCLOSURE

Material	Steel, Color: Blue electrostatic color
Size	Cylinder shape: D280× H210 mm
Weight	~6 Kg including housing & sensor

INSTALLATION

Housing	On the wall with two 4 mm screws / Shelter inside
Enclosure (Optional)	Welding on Top of Water Gate

OPERATION FEATURES

Easy for pulling out the spring and cable from inside of the enclosure
Ability to hanging accessories inside the enclosure during repairing
Special wall-mounting accessories
Lightweight, compact and portable compared to other enclosures
Reduce the risk of equipment falling into water
Easy for replacement of spares
Hidden lock
Non-attraction shape
Ability to install on a variety of water gates
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