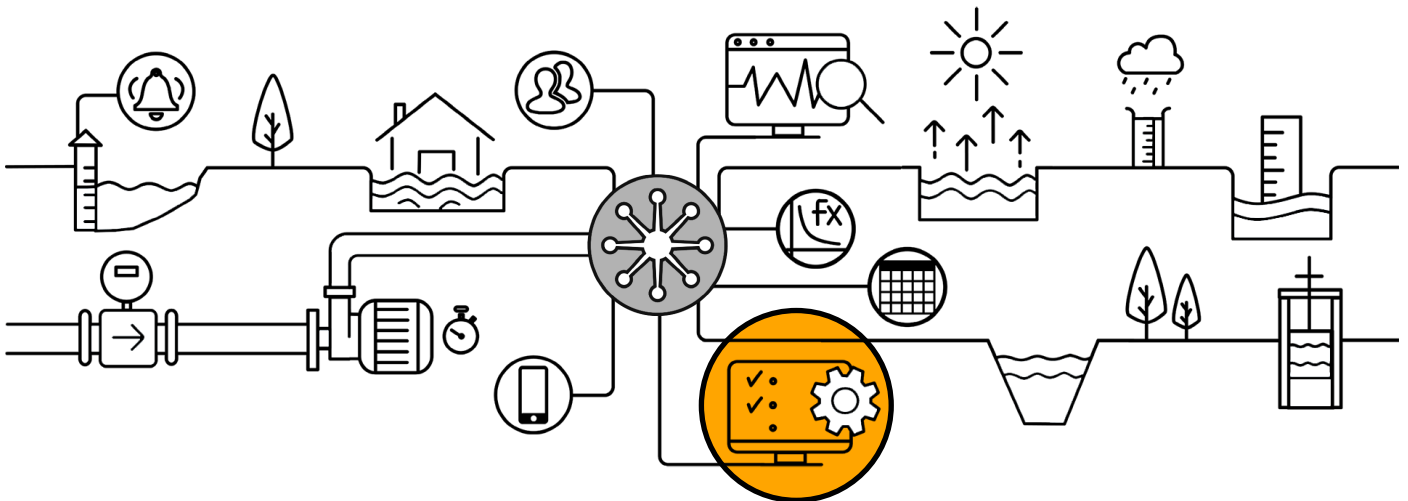


**What gets measured, gets managed.**

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

## VIGISOFT Control Software



**VIGISOFT (VIGIL Configuration Software)** is **VIGIL series** device control software that performs the settings of **VIGIL series** products.

These settings include setting the time period for sending information (Interval), determining how to read information from different inputs (sensors), managing optimal energy consumption, determine sending information under different protocols (SMS, GPRS,...) and also sending to local area networks (APN), Setting how to apply remote settings, sending the device's location (GPS), converting different input values to the desired information through relationships and tables (converting stage to discharge, ...), the possibility of creating a virtual channel corresponding to the application and location Installation, possibility of laboratory and field calibration by instantaneous monitoring of information, adjustment of intelligent mode (Event Log) for specific applications (Flood Warning, ...), determine how to display information on the device LCD, framing diagnostic data sent to the devices.



# VIGISOFT (Device, Menu & File)

## Control Software

### DEVICE

#### Device specifications

Device name	The name of the device / station	
Configuration Date	Date of issue	
Validation mode	Laboratory instrumentation.	
Interval	Reading time interval.	
System function	Type of settings according to hardware type	
	VIGIFLOW	Water flow measuring, monitoring and warning device
	VIGILEVEL	Water level measuring, monitoring and warning device
	VIGIFLOOD	Flood measuring, monitoring and warning devices
	VIGIPUMP	Measuring, monitoring and warning devices for the duration of the water pump
	VIGIL	Measuring, monitoring and warning devices for quantitative and qualitative water sensors
	VIGIRAIN	Measuring, monitoring and precipitation warning devices
	VIGI-EWAP	Measuring, monitoring and evaporation devices
Load cell Enable	Weight / water level sensor	
	Warm up time	How long does it take for the sensor to read?
	High resolution	Increases the sensor accuracy by up to 16 times.
Analog Enable	Add analog sensors	
	Warm up time	How long does it take for the sensor to read?
	High resolution	Increases the sensor accuracy by up to 16 times
Digital Enable	Add digital sensors	
	Warm up time	How long does it take for the sensor to read?
	High resolution	Increases the sensor accuracy by up to 16 times
Antenna Status	GSM antenna status	
Board model	Device model	
Interval status	The state of communication between electronic elements	
Internal voltage	Internal battery voltage	
External voltage	External battery voltage	
IMEI	Serial number of the device	
Firmware version	Software editing software	

### MENU

#### Settings menu

### FILE

#### Settings file

New	Create a new settings file
Open	Open the existing settings file
Open template	Open the default settings file
Save	Save the settings file
Save as	Save the settings file under another name
Exit	Exit the software



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# VIGISOFT (GMS & Calibration)

## Control Software

### GSM

Send data	
<i>GSM Working mode</i>	Set up device sending
	SMS
	SMS Center
	SMS Number 1
	SMS Number 2
	GPRS
	Access point
	Host 1
	Host 2
	GPRS Then SMS
	GPRS Else SMS
Read log	
SIM card monetary charge settings	
<i>Credit</i>	Simcard type (postpaid / prepaid)
	Select operator
	USSD code
Remote settings	
<i>Check in</i>	GSM update configuration enable
	Check in mode
	Check in number (SMS)
	Check in Host (GPRS)
Send device geographic coordinates	
<i>Location</i>	Longitude
	Latitude
	Location link (in google map)

### CALIBRATION

Field survey	
<i>Calibration enable</i>	Calibration settings
Load cell	Weight / water level sensor
Analog 1 / pump1	The first analog input and the first pump
Analog 2 / pump2	Second analog input and second pump
Digital 1 / pump3	The first digital input and the third pump
Digital 2 / pump4	Second digital input and fourth pump
Calibration Tab	Weighing
1 Level method	One-point calibration
2 Level method	Two-point calibration
DAC method	Calibration using calibration coefficient and one point



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# VIGISOFT (Relation, Event Log & Data Frame) Control Software

## RELATION

Defining relationships between data

<i>Virtual channel enable</i>	Virtual channel for data extraction according to relationships
Load cell	Data extraction using relationships for weight / water level sensor
Analog 1 / pump1	Data extraction using contacts for input 1 and pump
Analog 2 / pump2	Data extraction using contacts for input 2 and pump
Digital 1 / pump3	Data extraction using contacts for input 3 and pump
Digital 2 / pump4	Data extraction using contacts for input 4 and pump

## EVENT LOG

Read and send intelligently

<i>Polling time</i>	Rebellion time to the sensor	
<i>Event log enable</i>	Smart read and send mode	
Load cell tick	Activation of weight / water level sensor	
	Load cell	Rebellion with weight / water level sensor
Analog 1 / pump1 tick	Virtual channel	Rebellion connected to the virtual channel
	Enable intelligent reading of input data 1 and pump	
Analog 2 / pump2 tick	Analog 1 / pump1	Rebellion at entrance 1 and pump
	Virtual channel	Rebellion connected to the virtual channel
Digital 1 / pump3 tick	Enable intelligent reading of input data 2 and pump	
	Analog 2 / pump2	Rebellion at entrance 2 and pump
Digital 2 / pump4 tick	Virtual channel	Rebellion connected to the virtual channel
	Enable intelligent reading of input data 3 and pump	
Analog 1 / pump1 tick	Digital 1 / pump3	Rebellion at input 3 and pump
	Virtual channel	Rebellion connected to the virtual channel
Analog 2 / pump2 tick	Enable intelligent reading of input data 4 and pump	
	Digital 2 / pump4	Rebellion at entrance 4 and pump
Digital 1 / pump3 tick	Virtual channel	Rebellion connected to the virtual channel
	Virtual channel	Rebellion connected to the virtual channel

## DATA FRAME

Set the sent data frame

Manual data frame setting

Manual	C0	Set the first frame house
	C1	Frame house setup
	C2	Set the third frame house
	C3	Set the fourth frame house
	C4	Set the fifth house frame
	Ex_v	Enable external voltage sending
	In_v	Enable internal voltage sending
	Intrvl	Activate sending time period
	PLT	Activate sending time delivery time in smart reading
	temp	Enable send temperature
	Crdt	Activation Send credit SIM card

Default Default data frame mode



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# VIGISOFT (Screen, Tolls & Help)

## Control Software

### SCREEN

screen		
Screen Enable	Activate the screen	
	Activation of weight / water level sensor displays	
Load cell tick	Load cell	Display the weight / water level sensor
	Virtual channel	Relevant virtual channel display
	Activation of input displays 1 and pump	
Analog 1 / pump1 tick	Analog 1 / pump1	Input displays 1 and pump
	Virtual channel	Relevant virtual channel display
	Activation of input displays 2 and pump	
Analog 2 / pump2 tick	Analog 2 / pump2	Input displays 2 and pump
	Virtual channel	Relevant virtual channel display
	Activation of input displays 3 and pump	
Digital 1 / pump3 tick	Digital 1 / pump3	Input displays 3 and pump
	Virtual channel	Relevant virtual channel display
	Activation of input displays 4 and pump	
Digital 2 / pump4 tick	Digital 2 / pump4	Input displays 4 and pump
	Virtual channel	Relevant virtual channel display
Device name	Display device name	
SMS number1	Display the first number of SMS data sent	
SMS number2	Display the second number of SMS data sent	
IMEI	Display serial number of the device	
Battery voltage show	Display the device's external battery voltage	
Event show	Display read and send smart mode	

### TOOLS

Additional tools		
	Laboratory testing	
Validation	1Step coefficient	One-stage laboratory calibration 17025
	2Step coefficient	Two-stage laboratory calibration 17025
	Receive data (online)	Simultaneous display of data during testing
	Export Excel File	Send out forms to the Water Research Institute
	DFU Update the device's software	

### HELP

User manual	User reference
Contact us	Address and contact number of Abtin Tandis Idea Company
About us	



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# VIGISOFT (Utilities & Features)

## Control Software

### UTILITIES

Useful tools	
Battery lifetime	Calculate the useful life of the battery
	Parameters
	External Battery
	Internal Battery
	Display
	Working mode
	Antenna condition
	Interval
	Polling time
	Calculate
SMS format	Send remote settings via SMS
	Parameters
	Interval
	Polling time
	Threshold Load cell
	Working mode
	SMS number1
	Host1
	Load cell calibration
	Calculate
SMS frame	

### FEATURES

	Device	Validation mode	Get online data for calibration & more...	
		Interval	Determine Interval time	
		Sensor Inputs	Determine warmup time & high resolution mode	
	GSM	SMS	Send SMS to two different numbers.	
		GPRS	Send GPRS to two different Host & APN.	
		Credit	Determine SIM card type to send Credit of SIM card.	
		Check-in	Remote adjustment via SMS & GPRS.	
		GPS	Send location.	
	Calibration	Calibration by 3 methods.		
	Relation	Convert data to any other type through the table.		
	Event Log	Smart logging for different application.		
		Polling time		Determine Interval time of smart logging.
		Threshold		The range of desired changes.
	Data frame	Change the data layout in the frame.		
	Screen	Determine the display of data in the LCD.		
	RS485/Debug	Transfer data on RS485 protocol or Debug the device.		