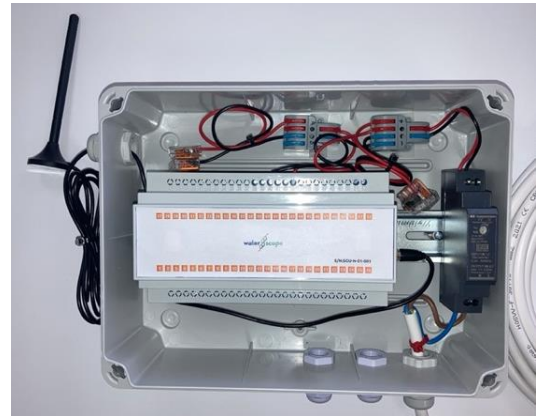


SGU - Smart General Use data acquisition IoT device

The SGU is a robust industrial measurement data acquisition device designed to monitor complex systems like water wells, wastewater pump shafts. The device can receive both analogue and digital signals. It can receive data on its 4-channel universal analogue (4-20 mA, 0-10V, 0-5V) and 4 channel digital interface. The device accommodates the Modbus RTU protocol for connecting other devices, such as power meters and sensors. It has pulse counters for water flow measurement purposes. The signals collected by the device are transmitted to the dedicated server via either a LoRaWAN or NB IoT data connection.

Fields of application

- Collect and transmit various data of water wells, well pumping stations, pressure boosters
- Monitoring of reservoirs, pools, water towers
- Monitoring of lifts and sewage lifts, transmission of data collection
- Several other industrial applications, where data collection and wireless data transfer is needed
- Because of an easy integration, there is possibility of using as a standalone device or as a built-in OEM device as well



Communication	
Transmission options	Nb-IoT/LoRaWAN
Antenna	External
Transmission frequency	Down to 5 minutes, typical 1 hour
SIM type (Nb-IoT)	microSIM card/eSIM
Digital input	
Pulse counter inputs	2
Digital IO inputs	4
Digital IO input voltage level	24 VDC
Water sensor input channels	2
Analog inputs	
Analog input channels	4
Analog input channel type	4-20mA/0-5V/0-10V
Interfaces	
Digital Interface	Modbus RTU RS485
Power	
Input voltage	7-36V
Current consumption	500mV max (without sensors)
Internal battery	none
Environmental	
Operating temperature	-20 - 85 °C
Ingress protection	IP54
Physical	
Dimensions	82x80x55
DIN rail mountable	Yes
DIN rail module width	9 modules
Weight	300g