



# Web portal Aqua-Web

The internet portal Aquaweb is intended for web based management of AQ and AQII devices from Jordan d.o.o.. The Aquaweb portal can be used by the manager as well as the end user, who has the device installed. Because of this the portal is divided into multiple user levels. The portal can be used to, add and remove devices, change system parameters, change the readout schedule, check meter indexes and history, automatically or manually close and open valves, upgrade the firmware, set alarms, export data (excel, csv, billing), or write the monthly usage to a pdf file. The portal can also notify using alarm sms and e-mail

#### 1. ADMINISTRATOR

- 1. Data overlook
- 1.1 Input data
- 2. Device management
- 3. Wireless firmware update
- 4. Wireless settings change
- 5. Management of outputs
- 5.1 open/close switch
- 6. Add new users
- 7. Manage users
- 8. Manage groups 9. SMS alarms
- 10. Email alarms
- 11. Data export
- 11.1 CSV/excel
- 12. Device list and data transfer
- 13. Personal settings

#### 3. USER

- 1. Data overlook
- 1.1 Input data
- 4. Wireless settings change
- 5. Management of outputs 5.1 open/close switch
- 8. Manage groups
- 9. SMS alarms
- 10. Email alarms
- 11. Data export
- 11.1 CSV/excel
- 13. Personal settings

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### 2. ADMINISTRATOR 1

- 1. Data overlook
- 1.1 Input data
- 2. Device management
- Wireless firmware update
  Wireless settings change
- 5. Management of outputs
- 5.1 open/close switch
- 6. Add new users
- 7. Manage users
- 8. Manage groups
- 9. SMS alarms
- 10. Email alarms
- 11. Data export
- 11.1 CSV/excel
- Device list and data transfer
  Personal settings

#### 4. USER 2

- 1. Data overlook 8. Manage groups
- Email alarms
  Personal settings





## Wireless battery powered remote control valve

**Flow** 

- Cumulative
- (!) Pressure
- 上 Temperature
- Level 🛎
- **ひ** On/Off Switches











#### About AQUALINK II Valve

Aqualink II is an automatic meter reading device (AMR). The device can be connected to different types of devices (gas, or water meters and temperature, pressure, moisture, flow... sensors). The device is battery powered and periodically sends consumption data through SMS/GPRS to a processing server.

The server receives and stores data to a SQI database. An authorized user can then access the data through the internet. The data is presented numerically and graphically in tables and graphs. The data can also be exported to different formats. Alarms can also be set, which, when triggered, are then sent as a SMS or an email to the user.

#### **Basic device operation:**

The device is designed for minimum power consumption while ensuring precise impulse counting and data transfer to the server. That is why most of the time the device is in sleep mode. As soon as it detects a change it wakes, registers the pulse and goes back to sleep mode. Once a day (or more often, based on the configuration) the devices goes into a transmitting mode in which it sends the accumulated data via SMS or GPRS/WiFi to the server. In case there is not enough signal for a gprs connection (if configured) the device sends a SMS instead. Due to battery conservation the device uses a "smart" algorithm that monitors the amount of tries and limits if needed.

The device can also be re-programmed or re-configured through the server without intervention on the field. When it connects to the server it checks if the software or parameters need updating and does so if necessary.

### SMS/GPRS configured parameters:

- Data storage mode for each input: interval, input type and alarm values for an interval
- Number of active inputs
- The number of GPRS/WiFi connections per day with a specified interval
- The number of SMS messages per day with a specified interval
- Telephone number, SMS center number, SMS server number, SMS operator number
- GPRS server to configuration
- Serial number of a meter and the input it is connected



- Device ID (unique number)
- Battery voltage
- Meter index in specified time intervals (from device memory) and meter serial numbers
- If needed the index of other analogue inputs (current state)
- Valve status (open or close)

Aqualink is compatible with all devices with a pulse output, inductive output (HRI, Cybel), sensors with a current output of 4-20mA or voltage outup of 50-1000mV. Few devices can be connected simultaneously in different combinations.

Firmware update over GPRS/WiFi or with an USB cable Two way communication Battery life up to 6 years SMS once per day shows hourly consumption Minimal interval for data sending: 5 minutes (SMS/GPRS/WiFi) Minimal interval for data collection: 5 seconds Archive in device for last 6 months Configuration of Aqualink over Aquaweb portal or USB cable Data accesible on Aquaweb External antenna (optional replacement antenna on areas with bad coverage or internal antenna (SMA) SIM card replacement possible Battery replacement possible Possible to connect to mains power Valve mounting Emergency off on manpower closing Optional output on device (opening/closing of valve)

Operation: Counting of pulses and analogue values and data transfer through GSM/GPRS/Wifi network Installation: All positions Protection rating: IP65 Temperature range: -15°C do +55°C Power supply: 2x Li-SOCI2 battery 3,6V; together 28.000mAh Dn 15 - H 152 x L 57 x 1,4 kg Dn 20 - H 152 x L 57 x 1,5 kg Dn 25 - H 163 x L 68 x 1,6 kg Dn 32 - H 173 x L 81 x 1,8 kg

Sleep (RTC on) : 145uA Data Acquisition: 5,5mA Data transfer: <300mA

Interfaces:3x digital input or analogue (configurable) 1x Reed relay on device 1x USB port 1x RS232 Port

Display: 3x LED diode TBD GSM Modem: Quad Band; GSM 850, EGSM900, DCS 1800, PCS 1900 Or Wifi modem. Antenna: Internal or external, SMA connector

SIM holder: Classic SIM connector









