

# **Motor Servo for Angled Seat Valves**

SKU: KFRLWE01 Version: 1.1 (May25)

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## **1. Product Description**

The motor drive for angle seat valves (KFR valves) enables the retrofitting of existing and already installed shut-off valves into remotely controllable smart devices, without interrupting the water supply or cutting into the water pipe.

The motor can be controlled in three different ways:

- 1. The device can be **directly paired with Aqua-Scope main sensors** (internet-connected sensors) of the AQM, AQS, or AQX series using the Aqua-Scope app and is then controlled by these sensors. No LoRaWAN network is required. Instructions can be found in the section 'Pairing with Aqua-Scope Main Sensors'.
- 2. The motor can be **directly paired with Aqua-Scope control sensors (not internet-connected) of the FLO, DRY, or CLP series** without requiring any additional wireless connection to the internet or a LoRaWAN network. Instructions can be found in the section 'Pairing with Aqua-Scope Control Sensors'.
- 3. The device supports the LoRaWAN wireless protocol and can be integrated into an existing LoRaWAN network as a Class C device. This requires LoRaWAN network coverage and that the device keys be registered with the LoRaWAN provider's JOIN server. If no LoRaWAN connection is available, the device will automatically accept control commands from Aqua-Scope sensors after about 20 seconds. Details can be found in the section 'Communication with a LoRaWAN Network'.

The three control methods are mutually exclusive. For example, if the motor is connected to LoRaWAN, it can no longer be directly controlled by an Aqua-Scope sensor. To enable that again, the motor must be reset to factory settings. Information on this can be found in the "Button Operation" section. Other radio systems (Wi-Fi, Shelly, etc.) can be integrated using additional adapters that are screwed between the connectors in the power supply. Communication between these adapters and the motor itself occurs via the power cable.

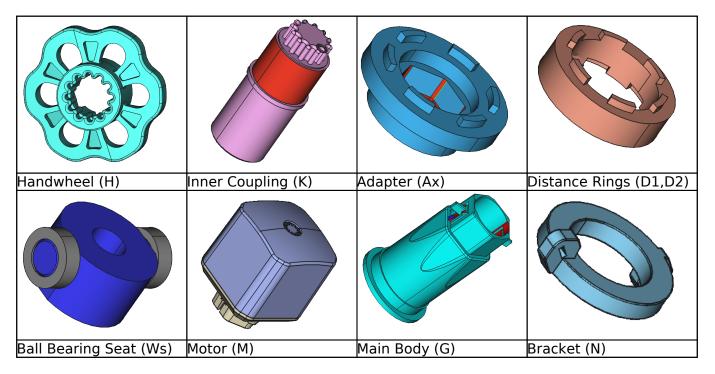
The motor is powered by a 12V power supply and is fully water- and dirt-resistant



up to the power supply unit. An optional battery pack is available for off-grid operation.

Various adapter rings and a sophisticated connection system allow the motor to be used with all modern angle seat valves from DN15 to DN32. Thanks to an additional water sensor that can be plugged directly into the device, the motor can also be used for leakage protection without any wireless connection at all.

# 2. Parts of the Motor



# 3. Installation of the motor

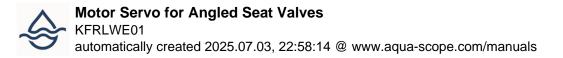
## 3.1. Mounting the motor on the valve

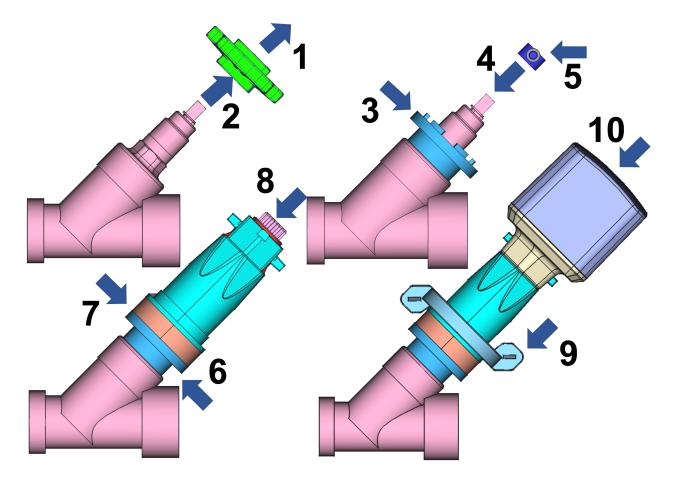
The motor drive can be used with all commercially available angle seat valves. However, due to the variety of mechanisms, certain adjustments must be made. When installing, the valve should be normally open (installers recommend opening the valve fully and then closing it slightly with approx. 2 clockwise turns).

- 1. First, loosen the screw in the center of the handwheel using a screwdriver. Some manufacturers do not use the typical green handwheel. The spindle may be hidden under plastic, but will always have a screw on top and a square end. Keep the screw for later use.
- 2. Now remove the handwheel.
- 3. Select one of the 4 adapters (A1...A4) for wrench sizes M17, M22, M27, or

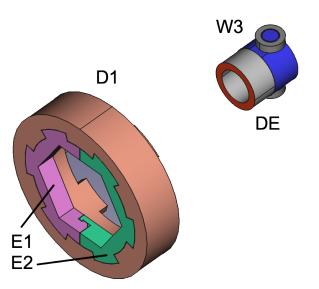
M30 that fits well onto the bottom of the valve top (hexagonal or rectangular shape). If none of the supplied adapters fits the valve, refer to the "Custom Adapter" section for further guidance.

- 4. Select the correct ball bearing seat (W1 ... W3) and place it on the spindle. If the spindle is larger than 8x8 mm, which is required for the largest ball bearing seat, this product cannot be used for this valve. If the spindle is smaller than the smallest ball bearing seat of 6x6 mm, the issue can be resolved similarly to the adapter case. See the instructions in the "Custom Adapter" section.
- 5. Now fix the ball bearing seat with the screw from step 1.
- 6. Depending on the size of the valve top and spindle, additional spacer rings (D1, D2) may be required on the adapter ring. If the inner coupler (K) cannot be pushed all the way into the main housing (G) without resting on the valve housing, or if the main housing does not reach the already installed adapter ring, a spacer ring (D1 or D2) must be placed between the adapter ring (Ax) and the main housing (G). This is usually the case with rising spindle valves. The spacer rings are 12 or 24 mm in size and can also be combined into a 26 mm ring. The spare handwheel can be used to test the opening and closing of the valve.
- 7. Now place the housing (G) onto the adapter or spacer ring.
- 8. Insert the inner coupler into the housing. It must reach over the ball bearings in both the open and closed positions. The housing is transparent for this purpose.
- 9. The retainer (N) is needed to hold the entire assembly in position if the valve is not installed upright. It is recommended to always use the bracket. The complete device is attached to the pipe using the two included cable ties. The cable ties can be removed at any time. To slide the retainer over the housing, the two tabs on the housing must be slightly pressed together. There are two small notches on the inner ring of the retainer for this purpose.
- 10. Finally, place the motor head onto the housing. Sometimes the inner coupler must be slightly rotated so that the gear structure of the motor meshes with the inner coupler.





3.2. Valves from Wilhelm Ewe GmbH and Co. KG



The valves from this company have a unique design. You must insert the split ring (E1+E2) into the 24 mm spacer ring (D1) instead of using one of the adapters A1 ... A4. A small additional spacer ring (DE) is placed directly under the ball bearing seat to fix the valve's grease chamber.

## 3.3. Custom Adapter

If no suitable adapter is available for the valve seat, a custom one must be made. To do this, select an adapter that fits over the valve seat and fill the gap with a twocomponent resin. This resin is included with the motor. Cut off a piece of the compound with a utility knife and knead it until a uniform color is achieved. Then fill the gaps between the adapter ring and the valve base. After the resin has hardened, the now custom-fit adapter ring can be used.

Note: The resin will adhere firmly to the valve. If this is not desired, lightly oil the valve beforehand. Then the hardened adapter ring can be removed more easily.

Similarly, a ball bearing seat can be adapted for a valve shaft with a square smaller than 6x6 mm. Ensure that the spindle is precisely centered in the ball bearing seat.

## 3.4. Setting the End Positions of the Motor Drive

Once the motor is mounted and powered, it must determine the correct end positions for the 'OPEN' and 'CLOSE' positions:

- 1. Manually turn the valve to the 'OPEN' position before the motor is initially installed. According to installer recommendations, the optimal 'OPEN' position is about 2 turns towards 'CLOSE' after reaching the stop in the 'OPEN' direction (counterclockwise).
- 2. Power the motor.
- 3. Press the button briefly once. The motor will now move briefly in both directions and determine whether it is in the 'OPEN' or, contrary to the recommendation in step 1, in the 'CLOSE' position. This information is indicated by the color of the LED on the device.
- 4. If the motor was initially in the 'OPEN' position, the first 'CLOSE' command (either via short button press or external control) will move it fully to the 'CLOSE' position and then slightly reverse. This function is intended to relieve the valve's rubber seal. If the seal has become brittle from long-term closing or aging, this may lead to valve leakage in the 'CLOSE' position. Therefore, this slight reverse function can be disabled.
  - If paired with an internet-enabled Aqua-Scope sensor, use the app in the "Configuration" section.
  - If paired with a non-internet-enabled device or used standalone, the function can be toggled on or off by pressing and holding the button for 6 seconds (6 \* buzzer), then releasing.

Once the end positions are recognized, the motor will no longer forcefully drive against the valve's endpoints, but will instead count the required motor turns and approach the endpoints gently.

# 4. External Cable Water Sensor

An optional wired flood sensor can be connected to the device. There is a connector on the power cable near the motor. Remove the blue rubber plug and insert the sensor. Please press the plug in firmly to ensure a waterproof connection.

When the sensor head detects water, an acoustic signal sounds, the valve closes, and the alarm is indicated by a flashing red LED. In addition, an alarm message is sent via LoRa radio. Once the sensor head is free of water, you can clear the alarm by pressing the button for 2 seconds. It is also possible to clear the alarm via radio.

# 5. Operation on the Device Itself

The device has a single button with a built-in three-color LED. To operate the valve, you can click the button or hold it down for a few seconds. The motor helps count the seconds by beeping once per second. The device is designed for outdoor use and must prevent malfunctions caused by water droplets on the button. Therefore, please press the button firmly (not too gently), even for a short click, so that the touchless button recognizes your finger.

## 5.1. Button Operation

The valve can be opened or closed via the button on the motor head (G) by briefly pressing it. In addition, the following special commands are available:

- Press and hold the button for 2 seconds: Clears a local alarm
- Press and hold the button for 5 seconds, followed by 5 quick clicks: Resets the motor. This function is only necessary if the motor is to be switched between one of the three mentioned operating modes (pairing with main sensors, control sensors, or LoRaWAN).
- (from production version May 2025) Click Button for 6 times: Toggles the pressure relief for the rubber seal in the 'CLOSED' position (default is 'active')
- Press and hold the button for 4 seconds, followed by one or two quick clicks: Defines the behavior of the external sensor once no water is detected anymore (when water is detected, the motor closes):
  - 1 click (default): Motor remains closed
  - 2 clicks: Motor opens again

## 5.2. LED Signals

The device has a two-color LED with the following meanings:

- Green blinking slowly: Open
- Red blinking slowly: Closed
- Red and green blinking quickly: Motor is moving



- Red blinking: Alarm
- Red blinking three times: Motor is blocked and cannot move the valve
- Yellow blinking: Searching for radio network connection

# 6. Motor Control via Radio

## 6.1. Pairing with Aqua-Scope Main Sensors

If a motor is operated with an internet-enabled Aqua-Scope sensor (AQS, AQM, AQX), the sensor must first be connected to the internet. The Aqua-Scope app then allows you to add the motor as a sub-device to the main sensor in the "Configuration" section. The motor is then always controlled via this sensor. In case of an alarm, a control signal is sent directly to the motor without using the internet connection.

## 6.2. Pairing with Aqua-Scope Control Sensors

The device can also be controlled directly by non-internet-enabled Aqua-Scope sensors (FLO, DRY, CLP). These must be paired with the motor. The sensors are put into pairing mode for this purpose. Information on pairing mode can be found in the manuals of the respective products. On the motor, press the button twice quickly. The sensor and motor are now paired, and the sensor can shut off the water by controlling the motor in the event of an alarm.

## 6.3. Communication with a LoRaWAN Network

Please register the device with its three keys on your LoRaWAN server before putting it into operation. The device EUI is printed on the device. Enter this key and your registered email address at https://aqua-scope.com/lora to receive the remaining two keys. The email address is the account email from the Aqua-Scope shop, or the data will be provided by your vendor.

If there is no LoRaWAN network or the LoRa keys are not registered in the LoRa network, the LoRaWAN connection process will fail after about 25 seconds, and the device will automatically switch to LoRaP2P mode for direct control by Aqua-Scope sensors. Please note that the device will always attempt to connect to the LoRaWAN network after power is turned on.

# 7. Technical Information on LoRaWAN Communication

## 7.1. LoRaWAN Payload Commands (Payload Format)

LoRaWAN commands can be daisy chained into the payload up to the defined



maximum payload size of 51 bytes. This mean that for all commands sent to defined number of bytes in the payload is required to avoid misinterpretation of command and/or command values in the receiver side. **All uplink and downlink commands use FPort=10.** 

- Uplink Command Hardware Version Report: 0x03 HW CAP\_MSB CAP\_LSB (4 Byte): This command reports the hardware version and a bitmap of the capabilities of the device. It is sent unsolicited as the first command during boot-up and as replying command to downlink command *Hardware Version Get.* HW is a single byte indicating the version of the hardware. The bitmap indicates the different capabilities of the device.
- Uplink Command Configuration Report: 0x04 IDX VAL\_MSB -VAL\_LSB (4 Byte): This command reports a configuration parameter of the device: IDX is the number of the configuration parameter. The 16 Bit VAL is the parameter itself. Configuration parameters are always 16 Bit values. The table below describes the configuration parameters and their values.
- Uplink Command Sensor Report: 0x06 ID VAL\_MSB VAL\_LSB (4 Byte): This command reports sensor values. The ID indicates the sensor type and defines the format of the 16-Bit VAL. The sensor types of this devices are listed below.
- Uplink Command Firmware Version Report: 0x0a VER\_MSB VER\_2 VER\_3 VER LSB (5 Byte): This command reports the 32-bit value of the current firmware. It is sent unsolicited as the first command during boot-up and as replying command to downlink command 'Hardware Version Get'.
- Uplink Command Alarm Report: 0x0b STATE TYPE VAL\_MSB -VAL\_LSB (5 Byte): This command reports start and end of alarms. The STATE-Byte indicates the status of the alarm (0x01 = active, 0x00 = inactive). The TYPE Byte indicates the type of alarm and defines the content of the 16 Bit VAL. Possible alarm IDs and the values reported are listed below.
- Downlink Command Hardware Version Get: 0x03 (1 Byte): This command calls for a Hardware Version Report sent upstream
- Downlink Command Configuration Set: 0x04 IDX VAL\_MSB -VAL\_LSB (4 Byte): This command allows setting configuration parameters of the device: IDX is the number of the configuration parameter. The 16 Bit VAL is the parameter itself. Configuration parameters are always 16 Bit Values. The table below describes the configuration parameters and its values.
- **Downlink Command Sensor Get: 0x06 ID (2 Byte)**: This command requests the report of sensor values. The ID indicates the sensor type. The sensor types of the devices are listed below.
- **Downlink Command Valve Position: 0x07 STATE (2 Byte)**: This command turns the water valve if associated into OPEN (state = 1) or CLOSE (state = 0) position
- Downlink Command Alarm Clear: 0x0b TYPE (2 Byte): This command



clears an alarm. TYPE is the type of alarm to be cleared. Type = 0 clears all active alarms. For other types of alarms to be cleared please refer to the uplink command 0x0b.

- **Downlink Command Configuration Get: 0x14 IDX (2 Byte)**: This command allows reading the configuration value IDX. The device will respond with an upstream command Configuration Report
- **Downlink Command Valve Status Get: 0x17 (1 Byte)**: This command requests a command "Device Status Report" sent upstreams.

## 7.2. LoRaWAN Sensor Types

The following sensor types are supported by the Aqua-Scope Monitor.

 0x01: Temperature: VAL is temperature in 1/10 Degree Celsius, (2-complement). Example: 0x06 0x01 0x00 0xCD => Temperature 0x00CD = 205 = 20.5 C., 0x06 0x01 0xFF 0xEA => Temperature 0xFFEA = -20 = -2 C

## 7.3. LoRaWAN Valve Positions for Command 0x07

- 0x00 Valve Close
- 0x64 Valve Open

## 7.4. LoRaWAN Alarm Types

The following alarmtypes are supported.

- 1 (0x01): Flood Sensor Tripped. VAL is 0x01 or 0x00.
- 2 (0x02): Freeze/Frost Danger. VAL is actual temperature.
- 3 (0x03): Temperature out of limits, VAL is actual temperature. For encoding of temperature please refer to section 'LoRaWAN Sensor Types'.

## 7.5. LoRaWAN Configuration Parameters

All Configuration Parameters are 2 Byte values that can be set and read out using LoRaWAN 'Configuration Get' and 'Configuration Set' commands. Here is an overview of the configuration parameters currently used:

#### Parameter 1 (0x01): Heartbeat Interval (Default: 0x000f = dec 15)

This parameter defines how often (in minutes) a status report is sent out.

#### Parameter 2 (0x02): Message type (Default: 0x0001 = dec 1)

This parameter defines whether confirmed or unconfirmed messages are sent over LoRaWAN. 0x01 = confirmed message, value 0x00 unconfirmed message.



#### Parameter 3 (0x03): Scale value for temperature report (Default: 0x0000 = dec 0)

This parameter defines whether a temperature value should be in Celsius (0x00) or Fahrenheit (0x01).

#### Parameter 4 (0x04): Repeat alarm report (Default: 0x0001 = dec 1)

This parameter defines how an alarm report is sent to the LoRa network. The parameter combines two different values: The more significant byte describes how often an alarm packet is retransmitted. The default setting here is 0x03 = 3 times. A value between 0x00 (no repetition) and 0xff (unlimited repetition) can be selected. The least significant byte defines the repeat interval in minutes.

#### Parameter 5 (0x05): Regular valve training (Default: 0x0107 = dec 263)

A valve should be moved regularly to maintain its smooth operation. The device can perform this training independently from control by a LoRa network. The parameter combines two different values: The higher-order byte describes whether (1) or not (0) valve training should take place. The low-order byte defines the interval of the training in days. Values between 1 and 30 days are possible. The default value is 0x0107, i.e. training takes place every 7 days.

#### Parameter 6 (0x06): Local display (Default: 0x0101 = dec 257)

With this parameter the buzzer and the LEDs can be activated (0x01) or deactivated (0x00) directly at the device. The lower byte defines the behavior of the buzzer, the higher byte the behavior of the LED. The default value is 0x0101, i.e. both buzzer and LED are active (for example during motor movement).

#### Parameter 7 (0x07): Threshold value for temperature report (Default: 0x000a = dec 10)

This parameter defines at which temperature change an additional temperature report is sent in addition to the regular temperature report. The value is given in 0.1 degrees Celsius and must be greater than 0x000a (= 1 degree).

#### Parameter 8 (0x08): Motor Power (Default: 0x0050 = dec 80)

This parameter allows limiting the motors torque. Max torque is 0x64 = 100 percent. Valid values are 0x50 ... 0x64.

#### Parameter 9 (0x09): Valve Turns (Default: 0x000a = dec 10)

Set the total turns of the valve. This value is set by calibration but can be changed manually if desired.

#### Parameter 12 (0x0c): Low Power Mode: RX Awake Time (Default: 0x01f4 = dec 500)



In battery mode, the motor sleeps but wakes up frequently to receive commands. This parameter defines (in ms) how long the motor is in receive mode during the wakeup.

#### Parameter 13 (0x0d): Low Power Mode: Sleep-Interval (Default: 0x0000 = dec 0)

In battery mode, the motor sleeps but wakes up frequently to receive commands. This parameter defines (in seconds) how long the motor will sleep before waking up into receive mode. Setting the parameter to 0 turns off the low power mode and keeps the motor awake all the time.

#### Parameter 14 (0x0e): Low Power Mode: Wakeup Reports (Default: 0x000a = dec 10)

In battery mode, the motor sleeps but wakes up frequently to receive commands. this parameter defines the number of receive-only wake ups, before a sync packet is sent upstream to resync the timers of the motor and the communicating device. Since parameter 13 defines the time between two receive-only wake ups, p13 \* p14 defines the total time in seconds between two wakeup reports. Even if the communicating device does not support the low power mode, this period defines the longest waiting time before a command is finally received and executed.

#### Parameter 15 (0x0f): Second Key Enable (Default: 0x0001 = dec 1)

This parameter defines if the direct pairing to sensors without involvement of an App is enabled. (1 = enabled, 0 = disabled)

# Parameter 16 (0x10): AutomaticallyDetect Position on Power-On (Default: 0x0000 = dec 0)

0 = do it on first button resp. first wireless command, 1 = do it always on power on

#### Parameter 17 (0x11): Gasket Relaxing in Close-Position (Default: 0x000a = dec 10)

turns back 1/x after hit close position

## 8. Scope of Delivery - motor

- Motor with power cable (150 cm) to waterproof coupling
- 4 \* adapter rings to connect to the valve housing
- 3 different connectors for the stem
- One small Distancering and the Splitring for EWE Valve Design
- Holder plus 2 wrist bands
- Main sleeve plus internal coupler
- Two Distance rings
- External wired Flood Sensor



- External Power Supply with 150 cm cable to waterproof coupling
- Spare Hand Wheel
- Users Manual
- 57 gr Epoxy

# 9. Technical Data

## 9.1. Valve Motor

- Mechanical Performance:
  - Rotation Speed: 15 rpm
  - Travel Time (full open close): 40 s
  - Mechanical Power: 10,95 W
  - Gearbox: 1 to 704 ratio
  - Noise: &lt 50 dB
  - Vibration: &lt 10 dB
- Installation space:
  - Min. Space from Wall: Pipe center min 35 mm from wall
  - Min. Space vertically: 175 mm above pipe center
  - Min. Space vertically for installation: 220 mm above pipe center
  - Adapters: M17, M22, M27, M30
  - Supported Stem height (from bottom of bonnet): 58 mm 135 mm, raising and non-raising spindles
  - Supported Stem connector: 6, 7, 8 mm square
  - Supports Pipes DN15 ... DN 32
- Controls and interfaces:
  - Tree Color LED (red, yellow, green)
  - Single button for local operation and alarm clearing
  - Jack to plug-in external water sensor pad for local loop operation
- Dimensions and Shipment:
  - Weight: 380 ... 420 gr (depends on adapters used)
  - Dimensions: 70 x (170 ... 195) mm
- Electrical data:
  - Voltage: 12 V DC
  - Typ. Power Consumption when motor is moving: ca. 400 mA
  - Typ. Power Consumption in Standby: ca. 50 mA
- Environmental Conditions and Trading
  - Shipment/Storage: -30 °C ... +70 °C
  - Operation: 20 °C ... 60 °C
  - Outdoor Use: IP67 (to power supply coupling), Power Supply is IP20
  - UN Customs Tariff: 85011093900

## 9.2. Wireless Communication

• LoRaWAN



- Standard: Class C
- Frequency: 868...869 MHz, other frequencies such as US configurable
- Range: 150 ... 200 m (depends on gateway)
- Network Joining: OTAA
- LoRa P2P
  - SF: 9, coding 4/5
  - Frequenz: EU868
  - Transmission: > 1km (TX 22 dB)

# **10. Support and Contact**

Should you encounter any problem, please give us the opportunity to address it before returning this product. Please check our website www.aqua-scope.com and particularly the support section for answers and help. You can also send a message to info@aqua-scope.com.

While the information in this manual has been compiled with great care, it may not be deemed an assurance of product characteristics. Aqua-Scope shall be liable only to the degree specified in the terms of sale and delivery. The reproduction and distribution of the documentation and software supplied with this product and the use of its contents is subject to written authorization from Aqua-Scope. We reserve the right to make any alterations that arise as the result of technical development.

- Phone: +372 (0) 6248002
- eMail: info@aqua-scope.com
- Web: www.aqua-scope.com

# **11. Declaration of Conformity**

Estonia, declares that this radio emitting device works on the following frequences:

**Български** С настоящото Aqua-Scope Technology ОÜ декларира, че този тип радиосъоръжение KFRLWE01 е в съответств ие с Директива 2014/53/ЕС. Цялостният текст на ЕС декларацията за съответствие може да се намери н а следния интернет адрес: www.aqua-scope.com/ce.

**Čeština** Tímto Aqua-Scope Technology OÜ prohlašuje, že typ rádiového zařízení KFRLWE01 je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: www.aqua-scope.com/ce.

**Dansk** Hermed erklærer Aqua-Scope Technology OÜ, at radioudstyrstypen KFRLWE01 er i overensstemmelse med direktiv 2014/53/EU. EUoverensstemmelseserklæringens fulde tekst kan findes p følgende internetadresse: www.aqua-scope.com/ce.



**Deutsch** Hiermit erklärt Aqua-Scope Technology OÜ, dass der Funkanlagentyp KFRLWE01 der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: www.aqua-scope.com/ce.

**Eesti** Käesolevaga deklareerib Aqua-Scope Technology OÜ, et kesolev raadioseadme tp KFRLWE01 vastab direktiivi 2014/53/EL nuetele. ELi vastavusdeklaratsiooni tielik tekst on kttesaadav jrgmisel internetiaadressil: www.aqua-scope.com/ce

**English** Hereby, Aqua-Scope Technology OÜ declares that the radio equipment type KFRLWE01 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.aqua-scope.com/ce

**Español** Por la presente, Aqua-Scope Technology OÜ declara que el tipo de equipo radioeléctrico KFRLWE01 es conforme con la Directiva 2014/53/UE. El texto completo de la declaracin UE de conformidad está disponible en la direccin Internet siguiente: www.aqua-scope.com/ce

**Ελληνικά** Με την παρούσα ο/η Aqua-Scope Technology ΟÜ, δηλώνει ότι ο ραδιοεξοπλισμός KFRLWE01 πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρ φωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: www.aqua-scope.com/ce

**Français** Le soussigné, Aqua-Scope Technology OÜ, déclare que l'équipement radioélectrique du type KFRLWE01 est conforme la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible l'adresse internet suivante: www.aqua-scope.com/ce

**Hrvatski** Aqua-Scope Technology OÜ ovime izjavljuje da je radijska oprema tipa KFRLWE01 u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: www.aqua-scope.com/ce

**Italiano** Il fabbricante, Aqua-Scope Technology OÜ, dichiara che il tipo di apparecchiatura radio KFRLWE01 conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformit UE disponibile al seguente indirizzo Internet: www.aqua-scope.com/ce

**Latviešu** Ar šo Aqua-Scope Technology OÜ deklarē, ka radioiekārta KFRLWE01 atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta v ietnē: www.aqua-scope.com/ce Lietuvių Aš, Aqua-Scope Technology OÜ, patvirtinu, kad radijo įrenginių tipas KFRLWE01 attiinka Direktyvą 2014/53/ES. Visas ES attikties deklaracijos tekstas prieinamas šiuo internet adresu: www.aqua-scope.com/ce

**Magyar** Aqua-Scope Technology OÜ igazolja, hogy a KFRLWE01 típus rádiberendezés megfelel a 2014/53/EU irányelvnek. Az EUmegfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: www.aqua-scope.com/ce

**Malti** B'dan, Aqua-Scope Technology OÜ, niddikjara li dan it-tip ta' tagħmir tar-radju KFRLWE01 huwa konformi madDirettiva 2014/53/UE. It-test kollu tad-dikjarazzjoni ta' konformit tal-UE huwa disponibbli f'dan l-indirizz talInternet li ġej: www.aqua-scope.com/ce

**Nederlands** Hierbij verklaar ik, Aqua-Scope Technology OÜ, dat het type radioapparatuur KFRLWE01 conform is met Richtlijn 2014/53/EU. De volledige tekst van de EUconformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: www.aqua-scope.com/ce

**Polski** Aqua-Scope Technology OÜ niniejszym oświadcza, że typ urządzenia radiowego KFRLWE01 jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodnośc I UE jest dostępny pod następującym adre sem internetowym: www.aqua-scope.com/ce

**Português** O(a) abaixo assinado(a) Aqua-Scope Technology OÜ declara que o presente tipo de equipamento de rádio KFRLWE01 está em conformidade com a Diretiva 2014/53/UE. O texto integral da declarao de conformidade está disponível no seguinte endereo de Internet: www.aqua-scope.com/ce



**Română** Prin prezenta Aqua-Scope Technology OÜ declară că tipul de echipamente KFRLWE01 este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: www.aqua-scope.com/ce

**Slovensko** Aqua-Scope Technology OÜ potrjuje, da je tip radijske opreme KFRLWE01 skladen z irektivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: www.aqua-scope.com/ce

**Slovensky** Aqua-Scope Technology OÜ týmto vyhlasuje, že rádiové zariadenie typu KFRLWE01 je v slade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: www.aqua-scope.com/ce

**Soumi** Aqua-Scope Technology OÜ vakuuttaa, että radiolaitetyyppi KFRLWE01 on direktiivin 2014/53/EU mukainen. EUvaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: www.aqua-scope.com/ce

**Svenska** Härmed försäkrar Aqua-Scope Technology OÜ att denna typ av radioutrustning KFRLWE01 verensstmmer med direktiv 2014/53/EU. Den fullständiga texten till EUförsäkran om verensstämmelse finns på följande webbadress: www.aqua-scope.com/ce

# 12. Disposal Guidelines



Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging health and well-being.