iQ WATERING

IQWATERING INSTALLATION GUIDE

2017.

CONTENT

INTRODUCTION

Thank you for choosing our IQWatering (IQW) product. This installation guide will help you to install your IQW controller, also help you to connect your IQW controller to your WiFi network.

For proper working IQW requires 2.4Ghz 802.11b/g/n WiFi network with internet connection and proper signal strength. After setting your IQW it can work temporary without internet access as well with limited functionality (i.e. you cannot control your IQW, weather forecast based irrigation function will not work, etc.) but it will run the already set irrigation program. IQW installation is not recommended on those areas where continuous internet access with WiFi is not available.

For further information please check our product web page: www.iqwatering.eu

You can find the following in the IQWatering controller box:

- Installation guide
- IQWatering controller unit
- 24V AC 1A power supply
- screw driver (limited offer, probably it is not included)

IQW INSTALLATION

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IQW INSTALLATION PROPER POSITION AND FASTENING

Your IQW is designed to be installed in-house, so it requires dry, protected place to install. IQW requires proper WiFi signal strength it will connect to have internet access. You can easily check proper WiFi strength with you smart phone. If your mobile phone can access internet with good speed (you can load web pages with an acceptable speed) at the planned IQW position then it will be most probably a good place for your IQW controller.

IQW controller can be installed in any position, it can be fixed on a wall (there are holes on the enclosure for that purpose) or it can be placed on a table. IQW controller is powered by power supply (packed with the controller) which should be plugged into the normal home power socket (220V-240V/50Hz). Power supply has a low voltage (24VAC) 140 cm long cord with a red plug, it should be connected to the IQW controller.

Wires coming from your valves and sensors can be easily connected to your IQW controller. There is a wiring cover at the bottom part of IQW which can be removed with the two screw at the bottom of the box. For an easy connection there are plugs with which you can connect the wires coming from valves and sensors. You can fasten the wires to the plugs with the screws on the plugs. After just plug the connectors to the proper place.

If you would like to fix IQW on wall or other objects, then you can use three holes on the IQW enclosure for that:

- at the back side of the enclosure there is a hanging hole
- below the wiring cover there are two fixing holes as well

It is recommended to set first the hanger and after set the place of the fixing holes (you can mark them with a pen if drilling is required).

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IQW WIRING

IQW power supply, watering zones' valves, sensors (rain sensor, water flow sensor) and the pump/central valve control wires should be connected to the proper place.

IMPORTANT: Do not connect your IQW to power supply till you are ready with all the other wire connection. In case your IQW is powered, do not plug in or unplug any cable to your IQW controller. Unplug your power supply from IQW when you plug in or unplug any wire connection.

IQW connection sockets are labelled to help the proper wiring. The labels are the following:

REG. 24V GND PUMP 1 2 3 4 5 6 7 8 S1 S2 RESET

Based on the labels the wiring should be the following:

24V – power supply connection, red plug on the power supply should be connected here

GND – common/ground wiring point for valves and central pump control. Both connection point on the plug can be used for that purpose.

PUMP – pump/central valve control output. Both connection point can be used.

1 2 3 4 5 6 7 8 – wire connection for watering valves, 8 valves can be controlled

S1 – rain sensor connection (2 wires coming from rain sensor)

S2 – flow sensor (2 wires coming from flow sensor)

Stripped wire ends should be put into plug wire connection and screws on plug can be used to tighten the cable in it.

TIP: In case you replace your old irrigation controller to IQW we suggest you to take a photo about the wire connection of your old controller or put tags on your wires.

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In case of new installation wiring should be the following (IQW should be switched off):

1. Connect with each other one of the wire coming from each valves and connect them to the common (GND) connection point of IQW.
2. The other remaining wire of each valve should be connected to the watering valve control connection (label is 1 to 8). One valve control output of IQW can control maximum 2 valves (1 valve control is guaranteed). Note which zone is connected to which control point.
3. In case of using master valve one wire of the master valve should be connected to the common wiring point (GND), the other wire of master valve should be connected to the PUMP connection point.
4. In case of pump control, one of the wire coming from the pump control should be connected to the common wiring point (GND), the other one to the PUMP connection point. **WARNING: the PUMP output line gives 24VAC output, it cannot be used to power the water pump itself, only for controlling!**

5. In case you have rain sensor and/or water flow sensor, you connect them to S1 (rain sensor input) and S2 (flow sensor input). IQW support normally open and normally closed sensors as well.

6. Finally connect the power supply plug and plug in the adapter into the main. IQW will start to work (there is no dedicated on/off switch on the controller).

IQW REGISTRATION

IQW REGISTRATION BEFORE FIRST USAGE

Before normal usage of IQWatering controller, it should be registered. Via the registration process WiFi access related information will be stored by IQW. It allows IQW to connect to the internet via your WiFi network.
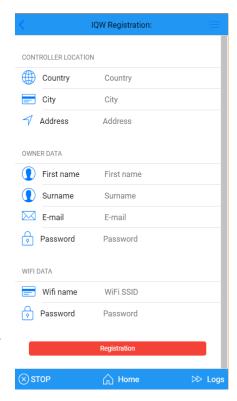
Also in the registration process you define the place of the controller it will be installed. It is required for IQW to query weather forecast data specific for the location of the controller. Also you will set your e-mail address and password which will allow you to access the IQW cloud for controlling your IQW.

Registration requires the following steps:

1. First download the free IQWatering application (iOS and Android devices are supported). You can find IQWatering application in Apple Store and in Google Play, just search for „IQWatering". Android version of your phone should be at least 4.3.

2. Start the IQWatering application and press on „New IQWatering registration". Fill the registration form. It is not necessary to fill the Wifi name field now, it is possible to select your Wifi later (from a list) in the registration process (see later in point 5.).

3. Press the „REG" button on IQW controller (it is close to the power connector at the bottom). IQW switches to a registration mode and creates his own Wifi network called „IQWatering".

4. Search for this Wifi network on your mobile phone or tablet and connect to it. It will ask for a password, type „iqwatering" as password (without

quotation marks, all small letters).

5. Pressing the icon on the registration form will list all the Wifi networks available. You can select the desired Wifi network your IQW controller will connect to. You can check also how strong the Wifi signal just next to your Wifi network name. Signal strength should be more than 15% to have a reliable internet connection of your IQW. In case of weak Wifi signal change the location of IQW or use Wifi repeater to achieve stronger Wifi signal.

6. Type in the password for the selected Wifi network (be careful, it is case sensitive).

7. If all fields are filled, press the Registration button at the bottom of the registration form.

8. In case of successful registration process you will see your IQW controller in ONLINE state and you can control your IQW controller with the IQWatering app. If the registration process is unsuccessful than check that all date are correct (especially the Wifi name and password) and start again the registration.

WARRANTY

Producer of IQWatering, ICTS Hungary warrants to the original purchaser that the IQWatering 'Product' is free from defects in materials and workmanship when used under normal residential purposes for a period of two years. This warranty is valid also in case of customer self-installation.

Serial number:

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Official manufacturer of the product:

ICTS Hungary
1119 Budapest, Petzvál J. u. 52.
Hungary
tel: +36 1 465 8040
www.iqwatering.eu