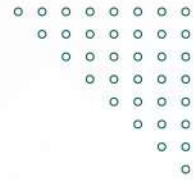




Wireless precision irrigation automation IoT platform




IRRIOT

CATALOG 2023



©2023 IRRIOT AB

-  www.irriot.com
-  sales@irriot.com
-  +46 70 232 0264



CONTENTS

<u>Controller and Accessories</u>	3
Irrigation controller	3
WiFi dongle	3
Extension Board	4
IRRIOT Cloud service annual fee	5
Industrial Latching Relay 2-port	5
Ceramic high amplifier antenna with cable	5
<u>RTU and accessories</u>	6
RTU (Remote Terminal Unit)	6
Long Range RTU	6
Metal frame for RTU pole/wall mounting	6
Installation kit	7
<u>Sensors</u>	7
Volumetric soil moisture and temp sensor BGT-SM1	7
Volumetric soil moisture and temp sensor SM150T	7
Tensiometer Watermark 200SS	7
pH Sensor	8
EC Sensor	8
Rain gauge	8
Pressure gauge**	8
Water level gauge**	9
Temperature and Humidity Sensor	9
Rain sensor	9

» Controller & Accessories

Irrigation Controller

IRRIOT controller connects and communicates using LoRa with up to 32 RTUs over long distances (>2km). Two switch type sensors can be connected directly to the Controller. With a WiFi dongle you connect the control-

Cloud service, allowing you to analyze

irrigation logs, get notified on alarms and events and program from cell phone or computer.

Controller can be equipped with up to 2 extension boards, 8 digital outputs or mixed analog input(6)/digital output(4).



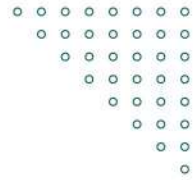
Price €1600*



Price €200*

WiFi Dongle

The WiFi dongle is an add on. Add this to your controller in order to connect the controller to your local WiFi and steer your irrigation through your mobile device. If no WiFi is available where you place your controller - simply install a 3G router close by.



Extension Board RE-8 (8 Digital Outputs)

The extension board RE-8 is an add-on which allows you to control your pumps, filters, fertilizer mixers or 24VAC valves. You can connect a maximum of two extension boards to your controller and each board has 8 output ports and a 12VDC battery backup. The board can be used to provide a 12VDC car battery or solar panel kit with a battery to power the controller where AC grid power is not available.

Price €150*



Extension Board MPE6-4 (6 Inputs, 4 Outputs)

The MPE6-4 mixed port extension board is an add-on which provides both inputs and outputs. The 6 inputs can be individually configured as:

- » 4...20mA input
- » Digital input
- » Counter

The digital outputs (4) allow you to control your pumps, filters, fertilizer mixers or 24VAC valves. You can connect a maximum of two extension boards to your controller. The board can be used to provide a 12VDC car battery or solar panel kit with a battery to power the controller where AC grid power is not available.

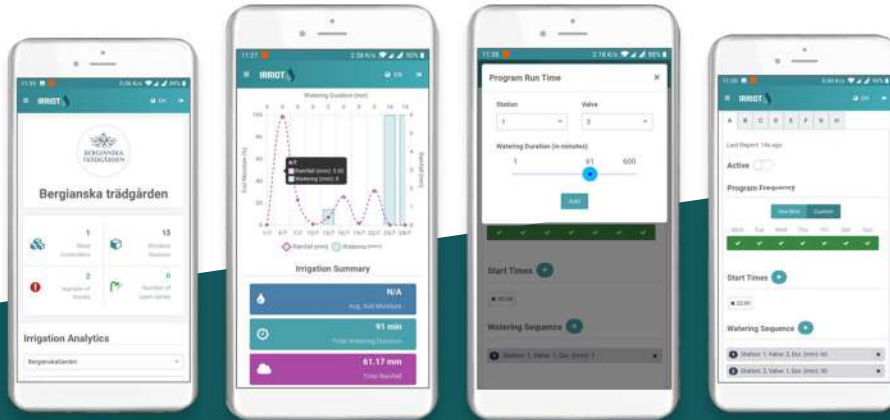
Price €250*



IRRIOT Cloud Service Annual Fee

You always have the option to program your irrigation through the controller but we strongly recommend you to subscribe to our cloud technology in order to facilitate your control of the irrigation. With our cloud service you have full control of your irrigation to the very last drop - from wherever you are.

Price €180*



Industrial Latching Relay (ILR) 2-port

For any remote equipment other than latching solenoids we offer an ILR device. It can, for example, operate a well pump remotely. ILR is connected to an RTU out in the field and is controlled in the same way as an ordinary valve.

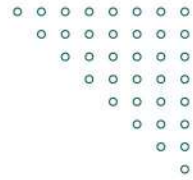
Price €200*

Ceramic High Amplifier Antenna With Cable

In order to reach up to 5km with your IRRIoT system you will need a high amplifier antenna. How this is mounted and placed is of high importance. We will supply you with detailed instructions regarding this matter.

Price €150*





» RTU and Accessories

RTU (Remote Terminal Unit)

The RTU comes in two versions. One version (RTU-2) that connects to maximum two valves and one sensor and one version (RTU-4) that connects to maximum four valves and one sensor.

Price RTU-2 €375*

Price RTU-4 €475*



Long Range RTU

As a general rule for distances over 1.5 km we recommend the Long Range option: an external ceramic antenna 3.5dBi, pre-



mounted on the RTU. It comes with a 3m cable and mounting kit. The same two models (RTU-2 and RTU-4) are available in the long range variant.

Price RTU-2 Long Range €475*

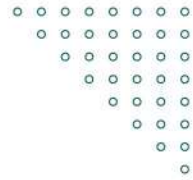
Price RTU-4 Long Range €575*

Metal Frame for RTU Pole/Wall Mounting

The RTUs can be mounted with simple cable ties but for the places where you want a more aesthetic installation we recommend the metal frames specially made for our RTUs.

Price €10*





Installation kit

Regardless of version of the RTU, you will need one installation kit per RTU. The kit consists of connection cables and pigtail connection clamps to ensure the connection to your valves.

Price €25*

» Sensors

Volumetric Soil Moisture and Temp Sensor BGT-SMI

The BGT-SMI is our favorite of the soil moisture sensors. It is allround with high precision and suitable both for soil and substrate. It comes with a special cable that connects to our system.

Price €150*



Volumetric Soil Moisture and Temp Sensor SM150T

The SM150T is an appreciated soil moisture and temperature sensor appreciated by many users, hence we have chosen to integrate it. It comes with a special cable that connects to our system.

Price €250*



Tensiometer Watermark 200SS

Watermark is a well respected brand among farmers. This soil moisture sensor we recommend only for soil. It comes with a special cable that connects to our system.

Price €90*



pH Sensor

The pH sensor looks identical to the BGT-SM1 but instead of soil moisture and temperature it measures the hydrogen-ion activity, indicating its acidity or basicity expressed as pH. pH level is an important indicator in many scenarios, It comes with a special cable that connects to our system.

Price €200*



EC Sensor

The EC sensor looks identical to the BGT-SM1 but instead of soil moisture and temperature it measures the electrical conductivity. It comes with a special cable that connects to our system.

Price €200*



Rain Gauge

Measure the precipitation with a 0.2mm precision in order to get an exact amount of water to your plants. With this sensor you will never over irrigate due to rainfall. It comes with a special cable that connects to our system.



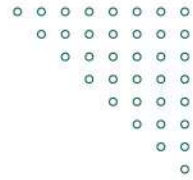
Price €200*

Pressure Gauge**

If you want to keep an eye on the pressure in the irrigation system we recommend you to use a pressure gauge which can measure 0-10Bar. It comes with a special cable that connects to our system.



Price €90*



Water Level Gauge**

With a water level gauge you can easily make sure that there is always enough water in your tank. It comes with a special cable that connects to our system.

Price €220*



Temperature and Humidity Sensor

Are you interested in automating your irrigation based on temperature and humidity then this is the sensor for you. Perfect for greenhouses. It comes with a special cable that connects to our system.

Price €180*



Rain Sensor

You don't want to irrigate while it is raining! Use a rain sensor to ensure this, the system will shut down while raining. The sensor is of model Hunter Mini-Click

Price €80*

*all prices are excluded V.A.T.

** RTU-2.2 and RTU-4.2 or later

