



# WaterMind v2 Advanced Logger

## Installation Instructions

### 1 - Pre-installation Precaution

WaterMind v2 Advanced Logger is an accurate measuring device to be connected to a pipe for pressure monitoring and/or to a water meter via wired pulse input and/or to an external power supply. It has built-in cellular equipment for data transfer.

To protect your safety, to ensure the proper measuring performance and to comply with warranty terms, please respect the installation procedure described in this document.

#### 1.1 Safety Advice for Pressure Monitoring Only

Only qualified and trained personnel, familiar with hazards linked to water networks at high pressures, should install the WaterMind v2 Advanced Logger.

#### 1.2 Battery Handling



Batteries pose a fire, explosion and severe burn hazard. Do not short circuit, disassemble, dispose of in fire, heat, expose to water, puncture or crush. Do not connect in reverse polarity. Manufacturers Material Safety Data Sheets are available upon request.

#### 1.3 Cellular Network and Battery Lifetime

WaterMind v2 Advanced Logger uses GSM/GPRS/3G communication networks for data transfer: 850/900/1800/1900MHz (GSM) and 800/850/900/1900/2100MHz (UMTS). The performance of these networks depends on many parameters under the responsibility of cellular operators and in no case is Itron's responsibility.

However, the battery lifetime is impacted by the performance of the cellular network that it is connected to. The estimated battery lifetime is based on a standard and correct performance of the cellular network and the respect of the recommended configuration by the user.

#### 1.4 Declaration and Environmental Protection

WaterMind v2 Advanced Logger is conform with both relevant Union Harmonization Legislation Directives: 2014/53/EU (RED) and 2011/65/EU (RoHS 2).

These approvals only apply to the WaterMind v2 Advanced Logger. Any accessories that may be delivered with the device are not covered by these approvals.

WaterMind v2 Advanced Logger is protected against dust ingress, water jets and permanent immersion (IP68 acc. to EN60529)

Full declaration of conformity is available at [www.itron.com/watermind](http://www.itron.com/watermind)

#### 1.5 Proximity to Users (RF Exposure)

This device is intended to be installed in un-manned locations. We recommend to maintain a distance of 0.25m (25cm) between the device and users.

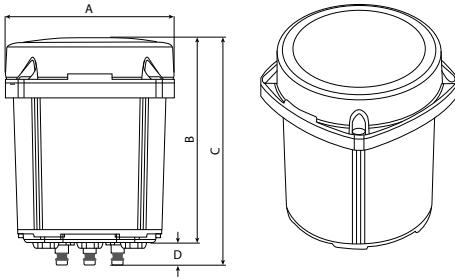
## 2 - WaterMind Advanced Logger Overview



- 1 One-quarter Turn screw
- 2 Bidirectional Flow Input (Pulse)
- 3 Pressure Transducer
- 4 USB Connection for PC
- 5 Label



- 1 Itron Logo
- 2 Product Name
- 3 Product Code
- 4 Serial Number
- 5 Manufacturing Date
- 6 Itron Web Address
- 7 Itron Address
- 8 Country of Origin marks
- 9 Crossed out wheeled dust bin
- 10 QR Code  
Product Code  
Serial Number  
Manufacturing Date
- 11 CE Marking



### Dimensions

<b>Diameter</b>	<b>A</b>	mm	115
<b>Height</b>	<b>B</b>	mm	140
<b>Total Height</b>	<b>C</b>	mm	155
<b>Fast Couples Height</b>	<b>D</b>	mm	15



It is strongly recommended to install Watermind in conditions that prevent freezing, especially for models with pressure sensors, where water goes through the coiled tube to the product.

### Ambient Operating Temperature

-10°C to +50°C

### Battery Lifetime

5 years minimum (with one daily dial-up, under normal working conditions, depending on configuration, temperature and location)

## 3 - Inventory

WaterMind v2 Advanced Logger is provided with a flow cable for pulse input connection and a coiled tube per pressure transducer for pressure input, at no additional cost.

However, the USB cable is not included. It can be ordered as a spare part.



**WM\_LOG\_SP\_FLOW\_C**  
WaterMind Spare Flow Cable



**WM\_LOG\_USB\_CABLE**  
WaterMind USB Cable  
(Spare part)



**WM\_LOG\_SP\_COILTUBE**  
WaterMind  
Spare Coiled Tube for pressure  
transducer connection (2.8m)

## 4 – Installation

WaterMind installation is very quick and easy. Below the pre-requirements and main steps are outlined.

### 4.1 – Pre-Installation Requirements

There are some elements that are required before going on field to install WaterMind:

- WaterMind Configurator software installed on a laptop with Windows OS.
- Tenant settings file containing name, ID and cryptographic access key.
- Tenant-Specific URL and port.

These elements are all provided upon the opening of a service requested, that can be managed by your local Itron representative.



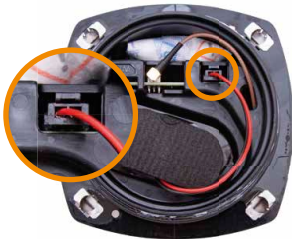
Configurator.exe

### 4.2 – Installation Steps

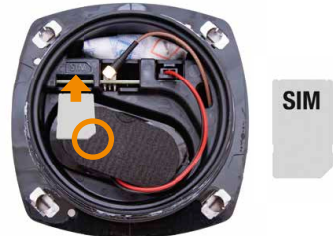
A - **Open the cover** using a small screwdriver. A quarter-turn is required to loosen for each of the 4 fasteners.



B - **Connect Battery.** WaterMind is delivered with the internal battery disconnected to save energy during transport and storage periods.



C - **Insert the SIM Card** in the slot with the SIM symbol.



SIM

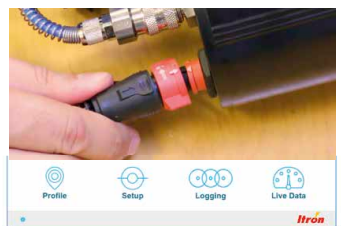
D - Press and click to **Close the cover.** Pay attention to ensure the cover fits the body.



Press/  
Click  
x4 Screws



E - **Commission the WaterMind v2 Advanced logger** in the system. This can be done at the office, before going on field.



Connect the WaterMind v2 Advanced Logger to a laptop using the USB cable and configure to set the following parameters:

- |                       |                   |   |
|-----------------------|-------------------|---|
| - Device name         | - Tenant settings | - Connection type (2/ 3/ 5 wires)                 |
| - Meter serial number | - Pulse weight    | - Cellular network params: APN, user and password |

You can set up and change most of the parameters remotely, at a later time.



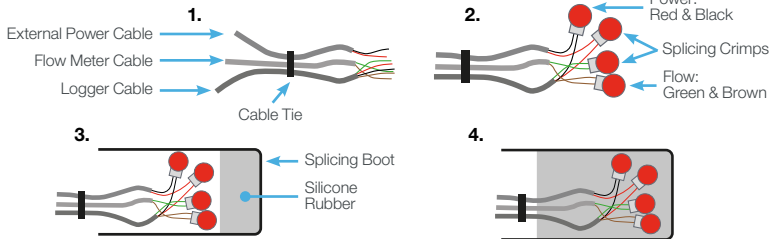
You may wish to configure multiple dialups to monitor logger operation on the day of deployment. Remember to revert to a more permanent setting (eg. daily) after the correct logger operation is verified.

F - Select the right **wire mapping** according to the meter you are connecting to the Watermind v2 Advanced Logger.



WaterMind Adv. Logger	Cyble Sensor / SharpFlow (5 wires)	Cyble Sensor (2 wires)	Other Meter (3 wires)
---	White - Low Frequency	---	---
Green - Forward Pulse	Grey - High Frequency	White - Low Frequency	Yellow - Forward Pulse
Brown - Ground	Brown - Ground	Brown - Ground	Brown - Ground
Yellow - Flow Direction / Reverse Pulse	Yellow - Dir	---	White - Reverse Pulse
Orange - Tamper	Green - Tamper	---	---
Red +ve DC (6V to 30V)	---	---	---
Black -ve DC (6V to 30V)	---	---	---

G - **Splice the Pulse Input Cable** following these steps.



H - **Connect Pulse and Pressure Inputs.**



I - **Meter Serial Number & Register Setup**

Check that the pre-configured meter serial number is the right one.

Set up the value of the water meter register.

Force the dial-up to update the server.



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