



IOM 6.25  
Issue A



# Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL



## Installation, Operation and Maintenance Manual



# IOM 6.25 Issue A



## Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL

### Page Index

1.	General Information	Pg 3
2.	Contents	Pg 3
3.	Installation	Pg 3-4
4.	Operation	
	- Standalone (Manual readings/ Software)	Pg 5-7
	- Remote (Via mobile app - Download readings)	Pg 8-12
5.	Test Report Document Example	Pg 13
6.	Maintenance/ Service	Pg 14
7.	Additional Information	Pg 14



# Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL

## General Description

The Mag-Flux HTL portable flow meter is used to measure flow and pressure in varying applications. These include:

- Wet Riser Systems - Pressure regulating valve Outlets
- Hydrant Mains
- Dry Riser Systems

The device can operate in 2 different modes

- Standalone Operation ① using the digital display to manually verify the flow and pressure readings of the test ② record the test to download and convert the data within microsoft excel (CSV)
- Remote Operation - Record the test via a bluetooth device (app). Download and view data via website with automatic pressure and flow graphs of test results

## Contents

The Mag-Flux HTL consist of:

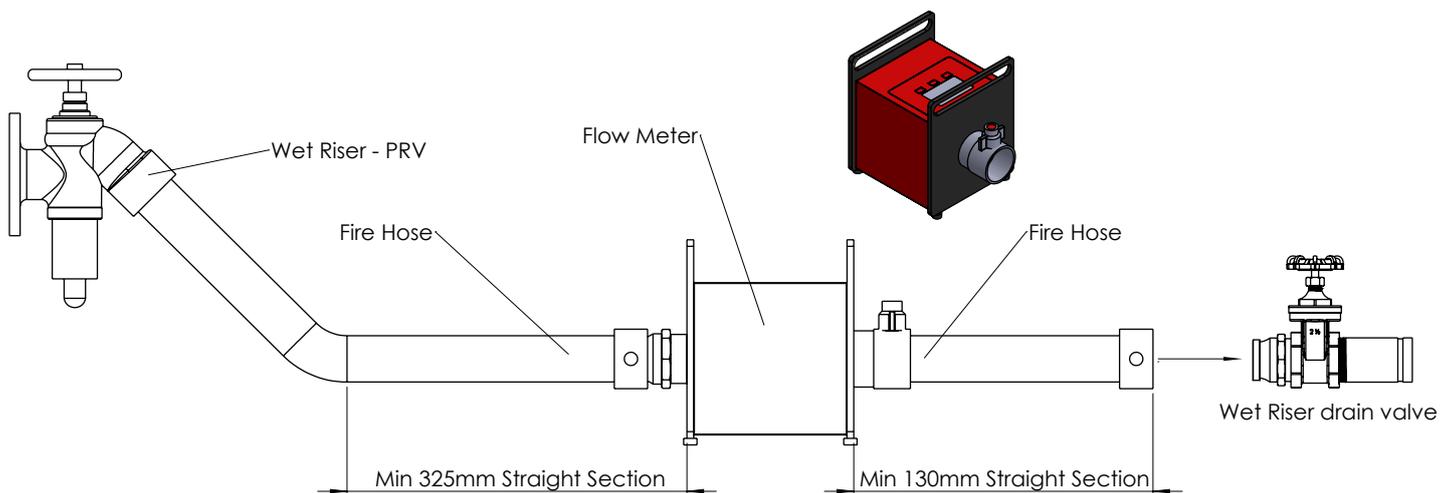
- Flow Meter
- Power charger
- Operating Instructions
- Calibration certificate

## Installation - Application dependant

### Wet Riser Systems

Verify the flow and pressure requirements of wet riser pressure regulating valves.

According to BS 990: 2015,  $8 \pm 0.5\text{bar}$   $750\text{LPM} \pm 75\text{LPM}$



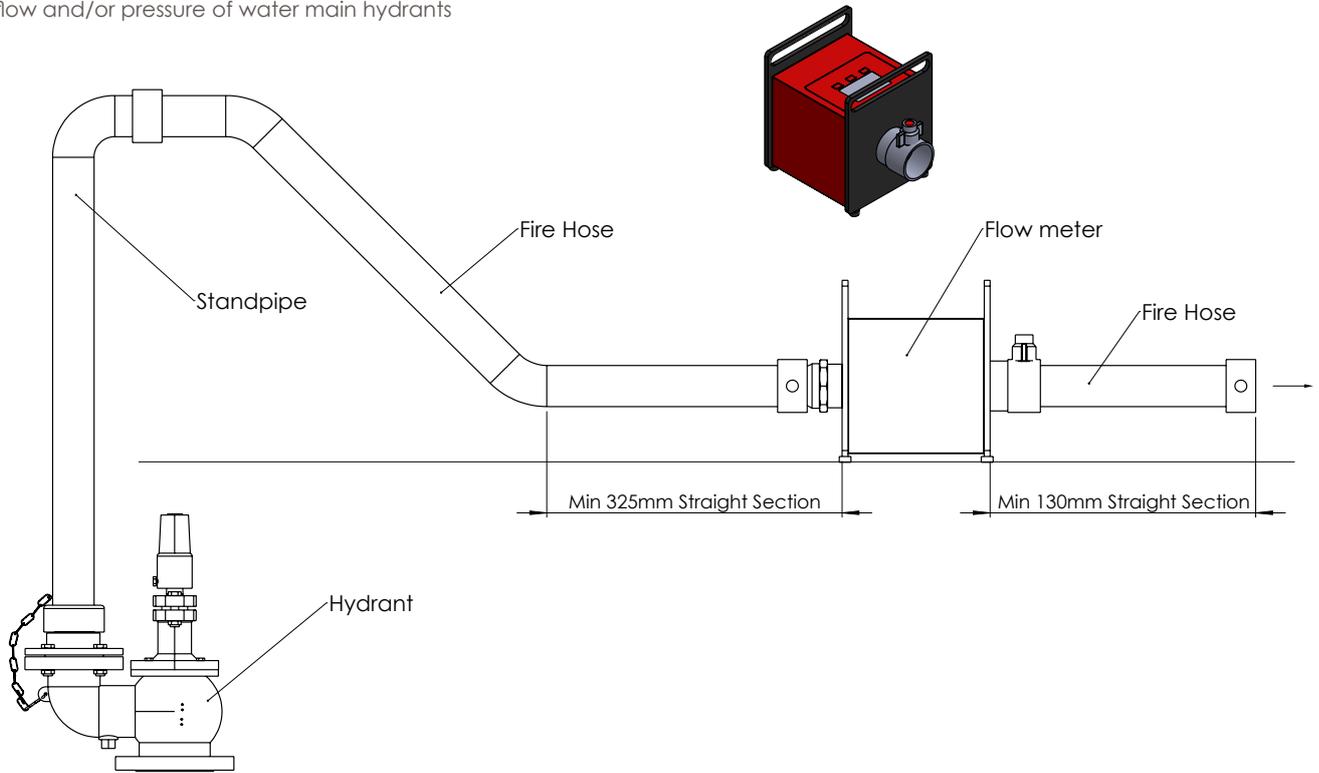
Note: Wet riser drain valve should be a BS336 male connector  
The BS336 instantaneous washer design is intended for flow in one direction.



# Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL

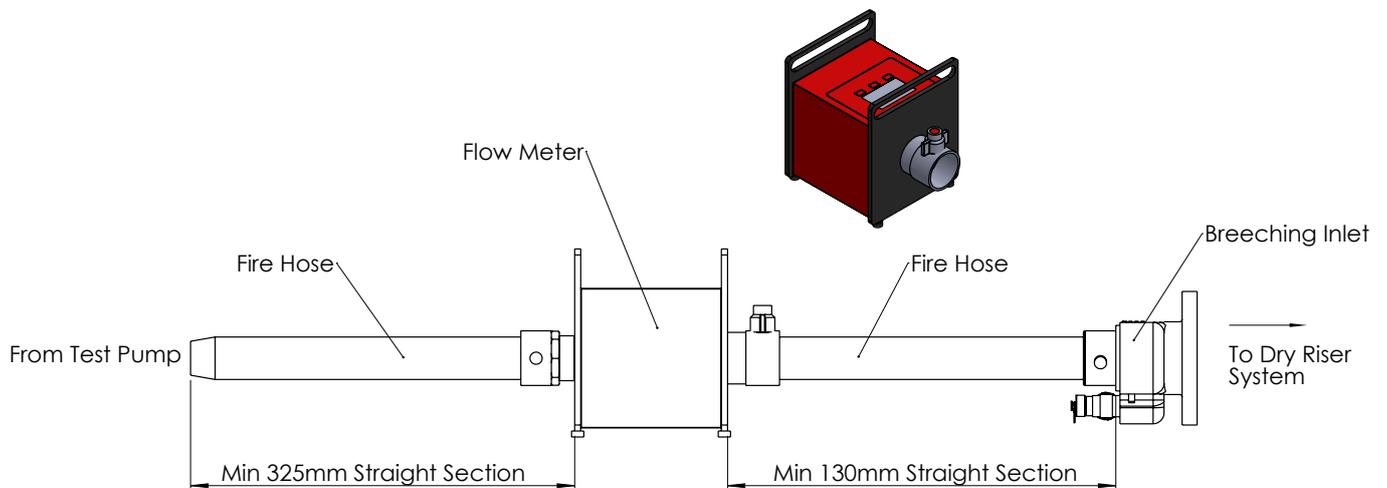
## Hydrant Testing

Verify the flow and/or pressure of water main hydrants



## Dry Riser System Pressure Test

Verify the design operating pressure of the system as per BS 9990: 2015





# IOM 6.25 Issue A



## Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL

### Operation

The device can operate in 2 different modes:

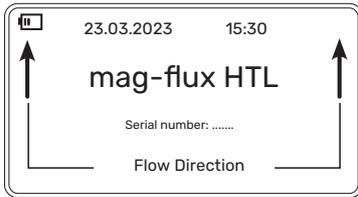
- Standalone Operation ① using the digital display to manually verify the flow and pressure readings of the test ② record the test to download and convert the data within microsoft excel (CSV)
- Remote operation - Record the test via a bluetooth device (app) Download and view data via website with pressure and flow graphs.

Note: Remote operation requires a subscription charge.

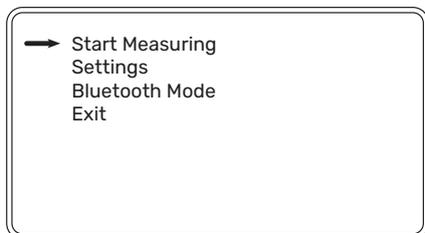
### Operation - Standalone

1. Press and hold  to turn the flow meter on.

The screen below will appear

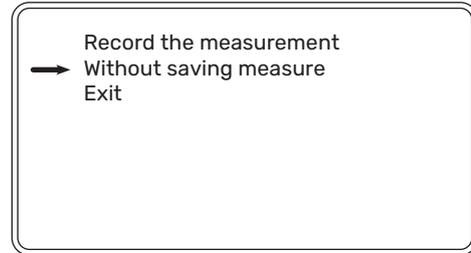


2. Press the ON button  The below screen will appear.



3. Select  to start measuring

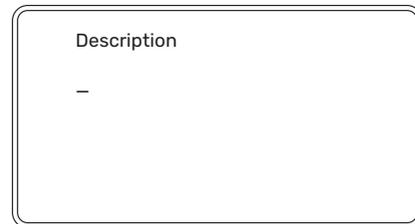
4. ② If recording the test to download a CSV select 'Record the measurement' by pressing enter and follow step 5.



① To display the flow and pressure **only** select 'Without saving measure' by pressing  (Step 6 will appear)

Use the arrow  to navigate down.

5. Name the test (Up to 16 characters)



Use the arrows   to change the character.

Use  to move to the next character. Once named press enter until the readings are displayed (step 6)



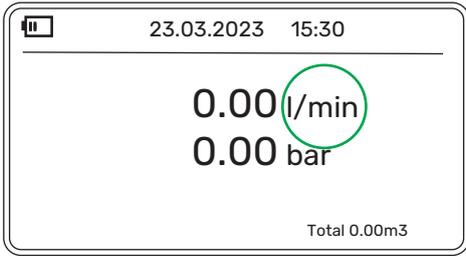
# IOM 6.25 Issue A



## Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL

6. The flowmeter is now ready to use.

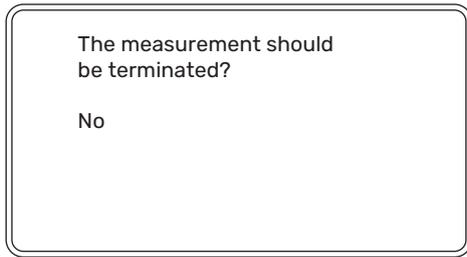
To change the flow rate units select



7. After testing press



(The below will appear)



Use the arrow to select Yes and press enter.

To turn the power off press and hold



### Download and convert the test (CSV) using the HTL PC software.

1. Turn on the flow meter and ensure "BT" (bluetooth) is turned on
2. Open the bluetooth setting on the Windows based PC (device with bluetooth connection)
3. Select Add a bluetooth device and connect to the HTL\*\*\*\* (Flow meter serial number)

### Wireless displays & docks

[TV] Samsung 7 Series (75)  
Not connected

### Other devices

HTL-142808  
Paired

Remove de

4. Once paired open the PC software.

Select mag-flux HTL (COM) suchen

### mag-flux HTL Datenexport - V0.2.4

mag-flux HTL (COM) suchen

HTL-...

COM5

Verbinden

m

From the drop down select the appropriate COM port that the HTL bluetooth is connected to.

Then select Verbinden.

5. Select mag-flux HTL auslesen

HTL-142808 (3.2.2)

erbinden

mag-flux HTL auslesen



6. Select the appropriate test you require to export

COM5

Verbinden

m

<input checked="" type="checkbox"/>	0	TEST	26/03/2023 13:56:51
<input type="checkbox"/>	1	6	26/03/2023 14:06:27



# IOM 6.25 Issue A



## Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL

7. Export the file as a CSV or JSON and save in relevant location.

12. Select finish.

To import the file in excel.

13. The data will be exported into columns allowing the user to create customised graphs/ charts.

8. Change the file extension from .CSV to a .txt file

9. Open excel and open the .txt file

10. Select Delimited and click Next.

B	C	D	E
l	Druck[bar]	Durchfluss[m³/h]	Trübung[
T14:06:27+01:00	0.01	0	
T14:06:28+01:00	0	0	
T14:06:29+01:00	0.01	0	
T14:06:30+01:00	0.01	0	
T14:06:31+01:00	0	0	
T14:06:32+01:00	0	0	
T14:06:33+01:00	0	0	
T14:06:34+01:00	0.01	0	
T14:06:35+01:00	0.01	0	

is correct, choose Next, or choose the data type that best describes your data.

iginal data type

oose the file type that best describes your data:

Delimited - Characters such as commas or tabs separate each field.

Fixed width - Fields are aligned in columns with spaces between each field.

Import at row: 1 File origin: 65001 : Unicode (UTF-8)

My data has headers.

Preview of file C:\Users\bobby.harrison\Desktop\1\_6.txt.

```

Nummer; Zeitstempel; Druck[bar]; Durchfluss[m³/h]; Trübung[FNU]; Leitfähi
0;2023-03-26T14:06:27+01:00;0.01;0;;;
1;2023-03-26T14:06:28+01:00;0;0;;;
2;2023-03-26T14:06:29+01:00;0.01;0;;;
3;2023-03-26T14:06:30+01:00;0.01;0;;;
4;2023-03-26T14:06:31+01:00;0;0;;;
5;2023-03-26T14:06:32+01:00;0;0;;;

```

Cancel < Back Next >

11. Select Semicolon and click Next

### Text Import Wizard - Step 2 of 3

This screen lets you set the delimiters your data contains. You can see how yo

Delimiters

Tab

Semicolon

Comma

Space

Other:

Treat consecutive delimiters as one

Text qualifier: "



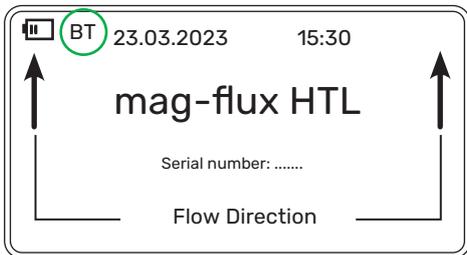
# IOM 6.25 Issue A

## Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL

Operation - Record the test via a bluetooth device

1. Press and hold  to turn the flow meter on.

2. Ensure the flow meter bluetooth is on by pressing 



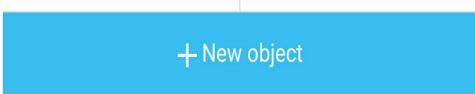
BT or BLE will indicate bluetooth is turned on the flow meter. For 1st time connection the bluetooth code is 1234. See additional section for more information with regards to BT or BLE

3. Download the wasserkarte.info app (android or apple device) onto your mobile device.

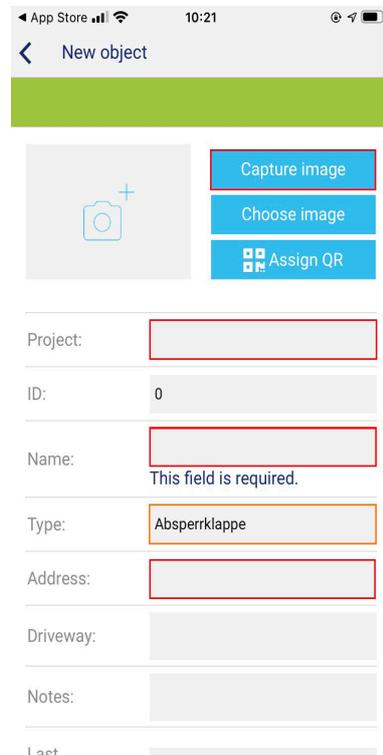
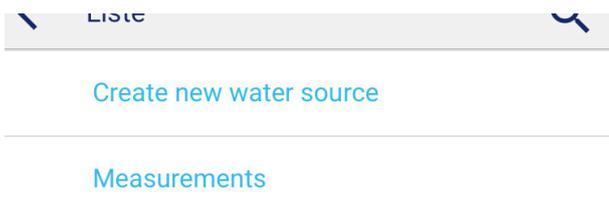
Login to your account (Username and password)

Testing operation:

3. Open the wasserkarte app Select **+ New object**



4. Create a new water source



5. Fill in the relevant details as per above and image on the next page.

Note:

Capture/choose image - will allow you to add a physical image to the PDF test document

Type - 'Absperklappe' is a 'Valve' (this function is not yet translated)



# Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL

Latitude: 52.58479259342751

Longitude:: -0.2069209643505114

**Determine location**



Cancel **Save**

6. Search and pair to the 'HTL' flow meter (The relevant serial number will be displayed at the end of the digits)

Sky 10:39

**Choose device**

**Quick selection**

HTL-142808 (368E0C27-0E59-997F-8458...)

**Search devices**

If you could not find a device, check if device is switched on and Bluetooth is activated.

To use this function, either the portable hydrant tester MAG-FLUX HTL from MECON GmbH or the hydrant tester HyDatLog or the data logger PreDatLog from M + R




7. Once paired Select and fill the relevant details below (Name - used to identify the measurement) Click Start measurement

Determine Location will allow for the GPS of where the test has been conducted (Refer to Page 11 for test document example)

Click **save** once all relevant details have been filled in.

### 5. Select **Measurements**

App Store 10:20

**Liste**

Create new water source

**Measurements**

**Realtime measurement**

Store on device?: **Yes** No

Name

Interval [s] 1

**Measurement inputs**

Pressure: **Yes** No

Flowrate: **Yes** No

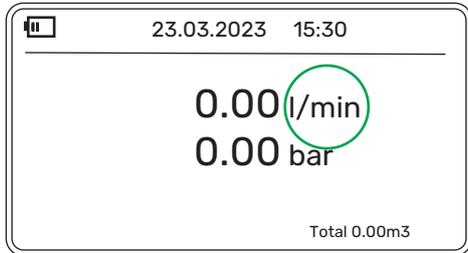
Cancel **Start measurement**



# IOM 6.25 Issue A

## Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL

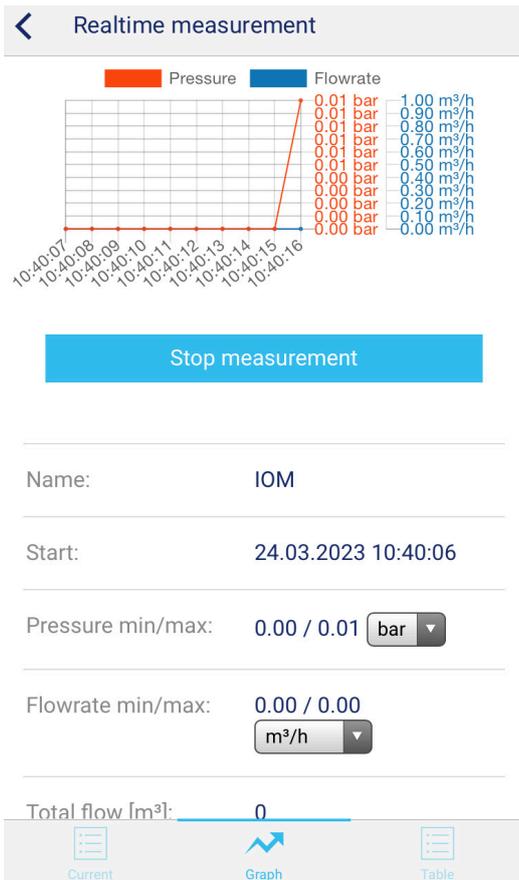
8. Once connected the flow meter will automatically display:



Change the units by selecting



The app will display:



Change the flowrate units by selecting the drop down.

Once testing has finished click 'stop measurement'

**Save the measurement.**

9. Select **Assign** and attach the relevant 'water source' that was created earlier.





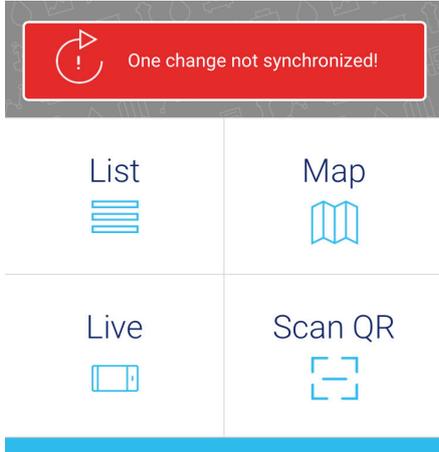
# IOM 6.25 Issue A



## Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL

9. Press the back button twice (to the main page) The note below will appear.

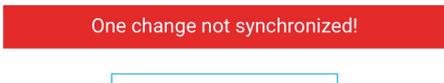
Click the red box



Click the blue sync button to synchronisate the latest test.



Last synchronization on: Mar 27, 2023 12:52:49 PM



Once synchronised you can exit the app and turn the power off to the flow meter (Press and hold the 'Off button)

All test data will be saved to the account.



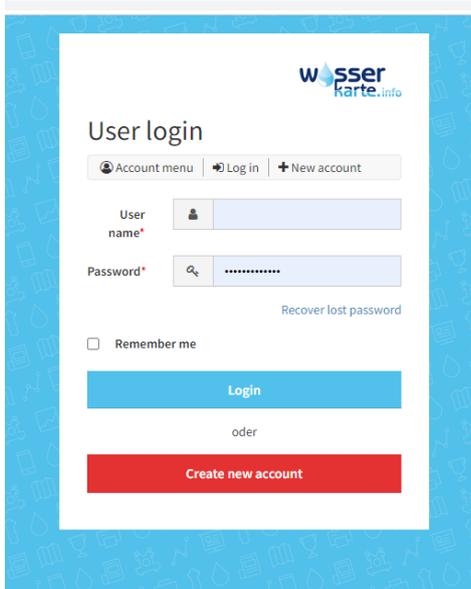
# IOM 6.25 Issue A



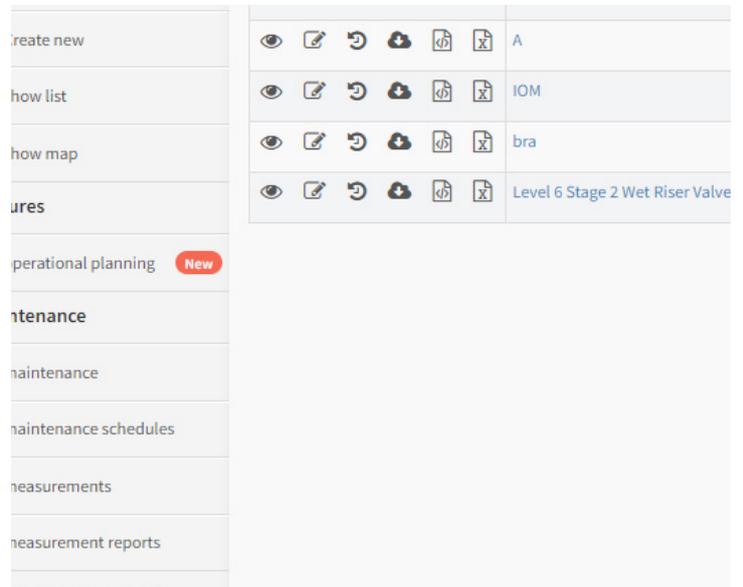
## Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL

### Download Test Results

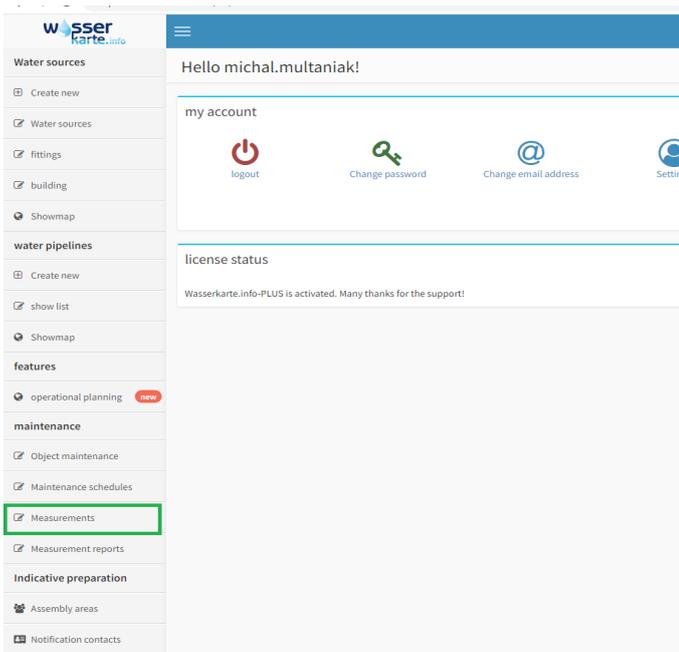
To download the test results. Login your account via webbrowser  
(<https://portal.wasserkarte.com/>)



2. All recordings will be shown below:



### 1. Select measurements



Select to edit test title,  
crop measurements shown  
on the test document.



Select to download test  
document (PDF)



Example of exported test document can be found on the next  
page.



IOM 6.25  
Issue A



# Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL

Steigleitung (# 1)



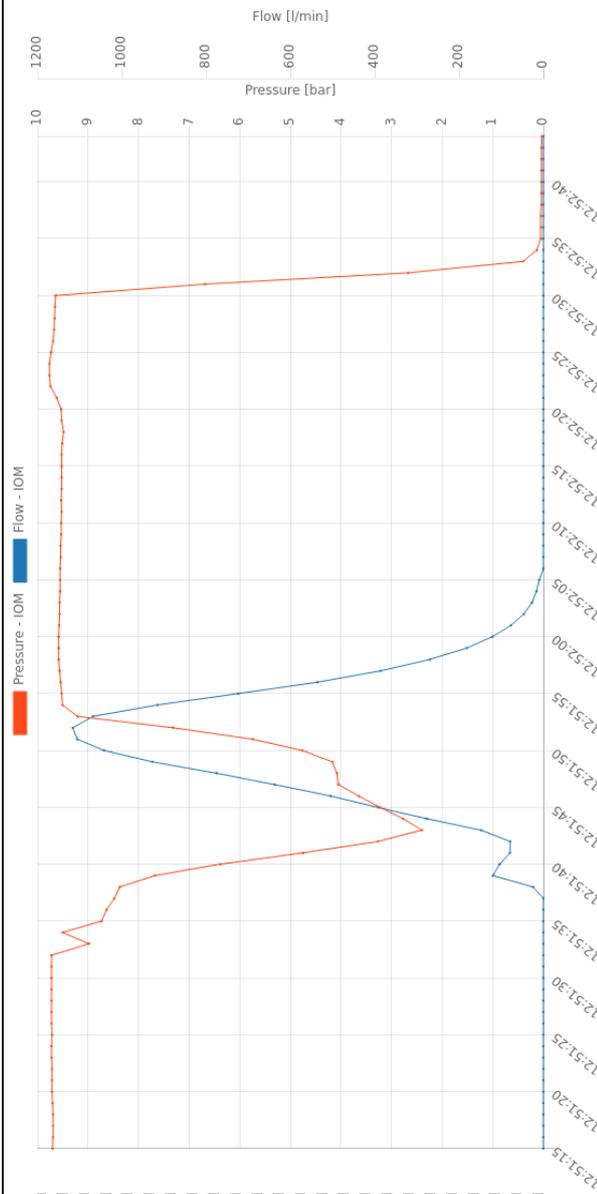
## IOM Water Source

Address:  
Latitude: 51.5166647  
Longitude: -0.1750731  
Drive way:

Name: IOM  
Start time: Oct 12, 2022, 12:51 PM  
Stop time: Oct 12, 2022, 12:52 PM  
Maintenance worker:  
Creation: Oct 12, 2022  
Last update: Mar 29, 2023  
Version: 5

Measurement interval: 1s  
Measure count: 90  
Total flow: 0.2 m<sup>3</sup>  
Device type: HTL-142808  
Firmware version: undefined,undefined,undefined

Pressure (min/max): 0.03/9.76 bar  
Flow (min/max): 0/1.116 l/min  
Flow at 1.5 bar: 148 l/min - 2.4 bar





# Portable Wet Riser, Dry Riser System & Hydrant Tester Mag-Flux HTL

## Maintenance & Service

The Mag-Flux HTL is maintenance-free device. It is recommended that the device is returned to the manufacturer for recalibration every 2 years.

## Additional Information

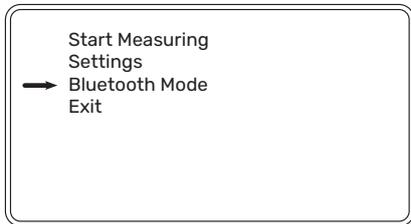
### Safety considerations

Suitably restrain the flow meter when running high flow and pressure tests through the flow meter. Consider manual handling techniques when handling the flow meter and carry case.

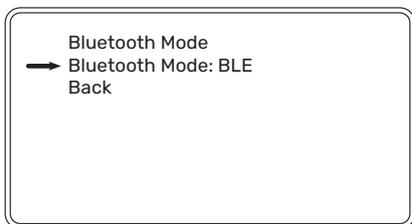
### Bluetooth Mode

For Android device the bluetooth mode should display BT  
For IOS device the bluetooth mode should display BLE.

To change the bluetooth mode;



Press to 'Bluetooth Mode' (as per above) and press



Change the bluetooth Mode by selecting BLE or BT.

Note first connection the bluetooth password is 1234

## Power Supply/ Charging

The Mag-Flux HTL is powered by 2 internal integrated rechargeable battery packs (7.2V each). A fully charged flow meter will provide approximately 24 hours use. Charge the battery periodically to prevent detriment to the internal batteries. Allow approximately 4 hours to fully charge the unit. Always ensure the protective cap for the charging connector is applied after charging and before carrying out any flow tests.

## Carry Case

The bespoke carrycase can be ordered separately to safely store and prevent damage to the flow meter

Features include:

- High strength
- Safe storage
- Foam inlay
- Dust and water proof
- Wheels and travel handle

