



Quick Start Guide:

PermaNET SU Installation
(Using HWM IDT).



Warning: Before continuing, carefully read and follow the information in the “**Safety Warnings and Approvals Information**” document.

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Note(s):

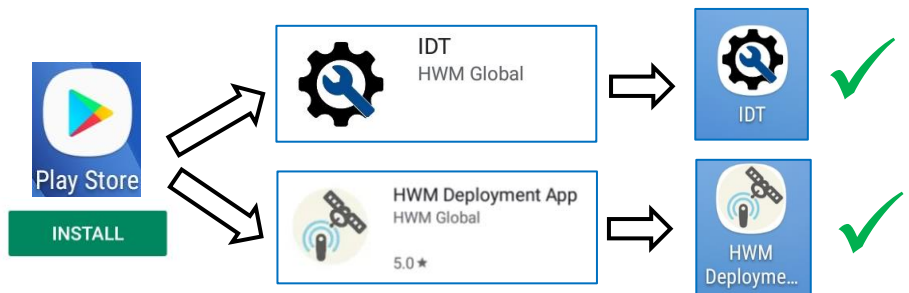
1. Loggers must be pre-registered on DataGate.
2. User must be pre-registered on DataGate.
Contact your System Administrator (or your HWM Sales representative) to obtain your server URL, username and password information, etc.
3. Assumes DMAs are pre-registered on DataGate.
4. For additional information, refer to main product manual, MAN-155-0001-x "User Guide: PermaNET SU - Installation and Setup".

1 PREPARE

1. Install required apps

Install "IDT".

Install "HWM Deployment App"
onto a mobile phone



Links:

IDT:



HWM Deployment App:



Google Play and the Google Play logo are trademarks of Google LLC.

2. Configure IDT app and Login

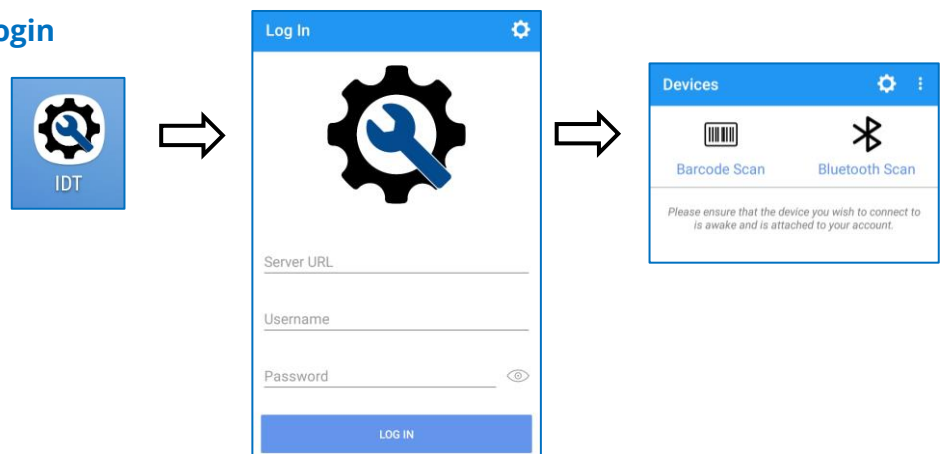
Launch IDT.

Add Server URL

Add Username

Add Password

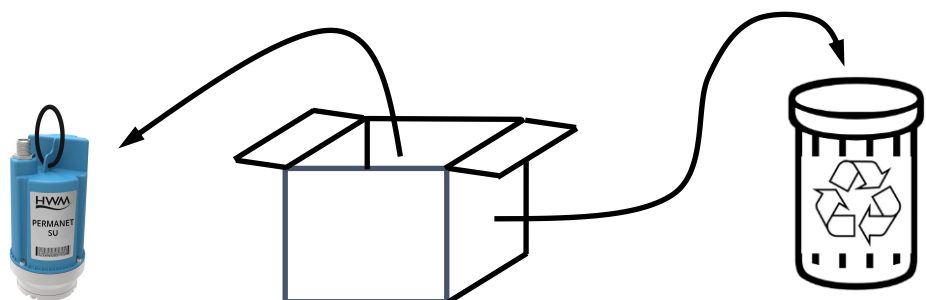
Login



2 DEPLOYMENT

1. Un-pack logger

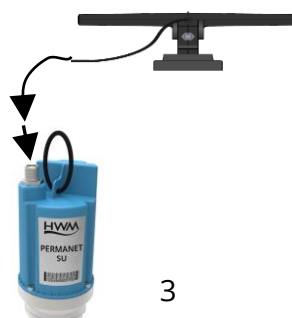
Dispose of packaging responsibly.



2. Fit antenna

Fit antenna to logger before use.

Rotate nut until finger tight.

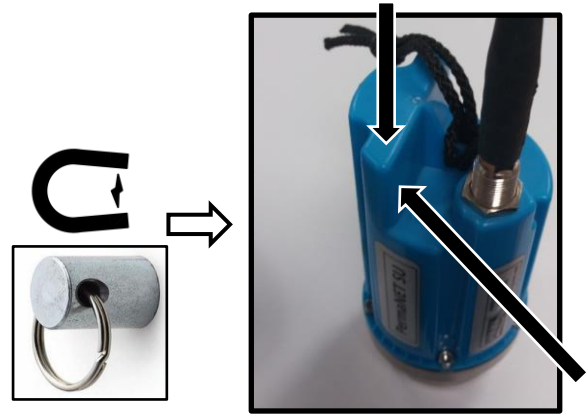


3. Wake Logger

Hold strong magnet in position shown.

Wait 8 – 10s.

- Logger stays awake for 120s, waiting for IDT to communicate.
- Communication with phone remains open for 600s after last use.



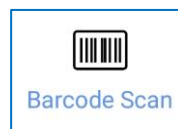
4. Read barcode / Bluetooth scan

Tap "Barcode Scan" icon.

Scan barcode of logger.

IDT connects to Logger.

If fail, try (3) again.



Connecting to device



Please wait while we acquire the device details

Alternative:



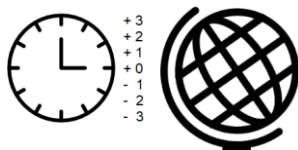
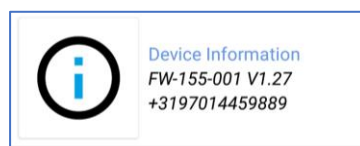
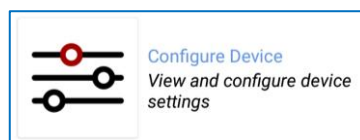
Tap "Bluetooth Scan".

Select logger from list; IDT connects to logger.

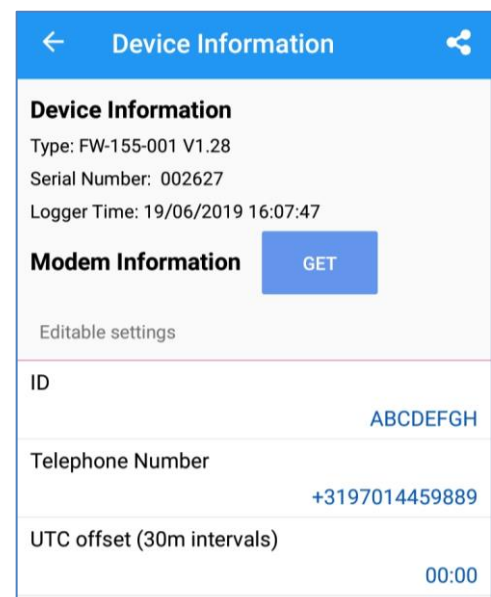
5. Setup Logger

Tap "Configure Device".

Tap "Device Information".

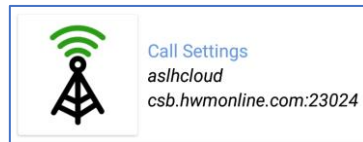


Set local time-zone.

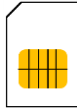


6. Set Call-in Settings

Tap
"Call Settings".



Set network details for
your SIM provider.



Set your DataGate destination



Set your required
logger call-in details



Call-in daily at set times.

Save battery – Do not call if
latest data already sent OK.

Times at which to call with
data.

| Call Settings | |
|--|-----------------|
| APN Settings | |
| APN | your APN |
| APN Username | |
| APN Password | |
| Settings | |
| Server Address | your server URL |
| Server Port | 23024 |
| Call Type | UDP |
| Call Mode | Time |
| Continue to call when there is no data | No |
| Call Times | 06:00, 09:30 |

Note: These settings can (as an option) be pre-configured by HWM to customer requirements.

7. Install Logger

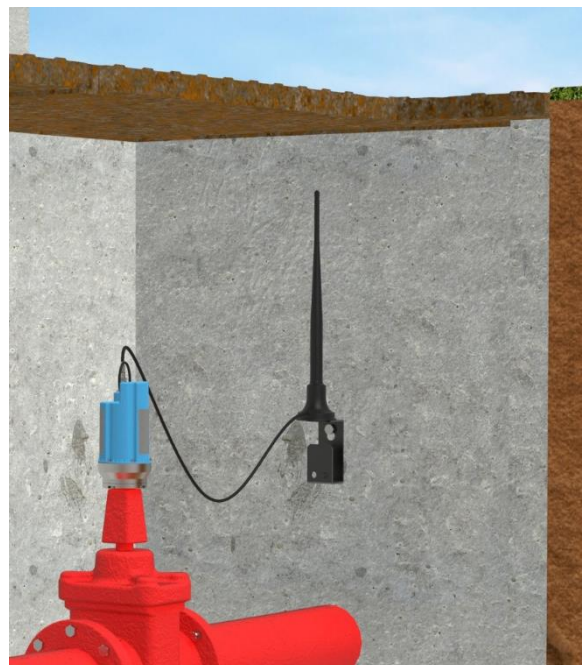
Remove lid from chamber.

Clean location of attachment.

Install logger using magnetic base.

Position antenna within chamber.

Ensure cables have no bends.



8. Check CSQ level

Tap
"Signal Test"

Fit lid of chamber and
check network CSQ level.



Network: vodafone UK 2G
Modem: GE866-QUAD
Firmware: 16.01.204

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History (tap to highlight)

Summary of CSQ levels is shown below:



0-7 Poor.

(The logger may be able to register with network but will not be able to send or receive data reliably).



8-14 Acceptable.

(Depending upon the ambient conditions data transmission may be possible. It is important to select the correct antenna and install it in the most suitable location).

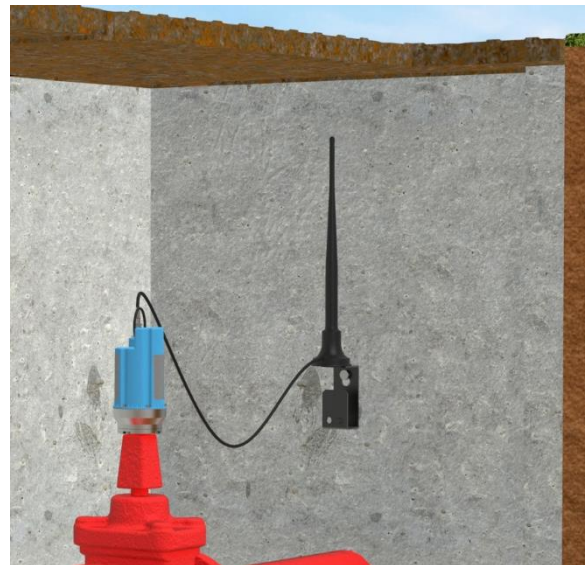
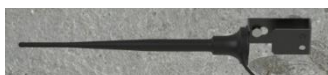
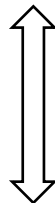
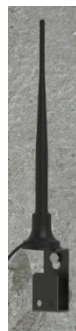
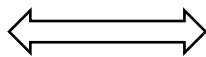


15+ Good.

(Data transmission should be reliable).

If required, adjust
antenna to get
best results.

- Move position
- Rotate
- Adjust height



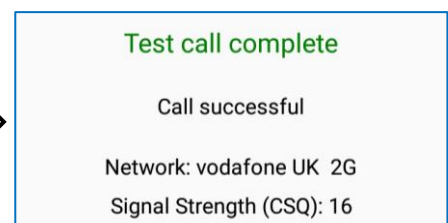
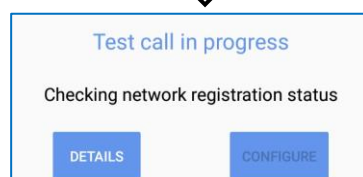
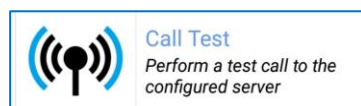
9. Call Test.

Check in final position with
lid on chamber.

Tap
"Call Test"

Wait until complete.

Check "Call successful".



3 RECORD LOGGER DEPLOYMENT LOCATION / SITE DETAILS

1. Begin Deployment location recording

Tap
"Deploy Device"

Tap
"Configure server URL..."

Add details

Tap
"Test Connection".
and confirm OK result.

Add Username
and Password

Tap
"Login".

Select "Options" tab.

To sync with DataGate...
Tap "Last sync with server".



Installation Setup

Install Account Name:
Mysuinstall

Storage Account (optional):
Mysuinventory

Server URL:

TEST CONNECTION

NOTE: Connection Test does not test Install Account Name or the Storage Account name. This is checked when you are logging in.

HWM

Username

Password

LOGIN

Configure server URL and install account name

v2.15rr

HWM Deployment App

INSTALL SWAP DATABASE OPTIONS

Site Details

Automatically estimate address: ☒

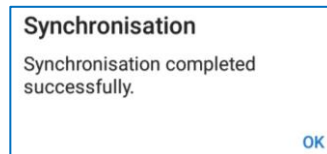
Prefix address with: [No prefix]

Prefix site ID with: [No prefix]

Add an auto-generated site ID: ☐

Other

Last sync with server: Never



2. Select Installation type.

Select "Install" tab.

Tap
"Installation type"

Select "New Install"

HWM Deployment App

INSTALL SWAP DATABASE OPTIONS

Site Details

Installation type

SMS Number: 3197014459889

GPS Coordinates

Installation type

New install

3. Obtain GPS location of site.

Tap
"GPS Coordinates"

Wait for map to load.

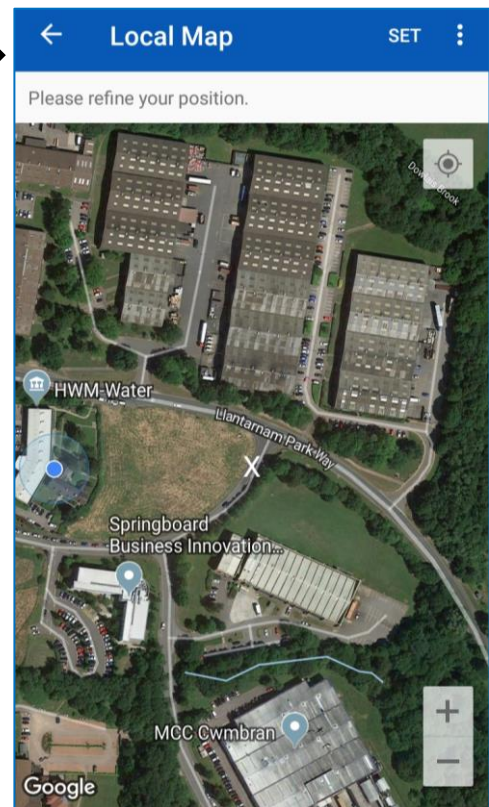
Position "X" onto location
of site of deployment.
(Move map using
touch-screen.
Zoom map if required).

When finished, tap on "Set".

GPS locations are set.

Estimate of address is
set (editable).

| |
|-------------------------------------|
| GPS Coordinates |
| 51.6339625343405, -3.01483478397131 |



| |
|-------------------------------------|
| GPS Coordinates |
| 51.6339625343405, -3.01483478397131 |
| Site Address |
| Unit 1, Concordia House Lakesi ... |

4. Add Site Details

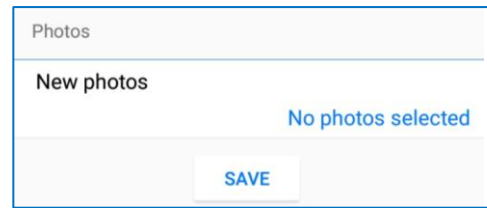
Add Site ID and DMA
(Tap line to enter).

Add pipe details.
(Tap line to enter).

| | |
|------------------------------------|---------------------------|
| Unit 1, Concordia House Lakesi ... | |
| Site ID | mySUsite0001 |
| Zone/DMA | mySuDMA001 (my SU DMA001) |
| Site Notes | |

| | |
|---------------|-------------------|
| Pipe Material | Cast Iron |
| Pipe Diameter | 2" (50mm) |
| Chamber Type | FH (Fire Hydrant) |
| Photos | |

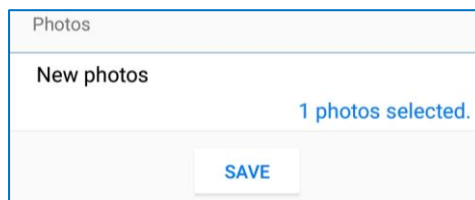
Tap
"New photos".



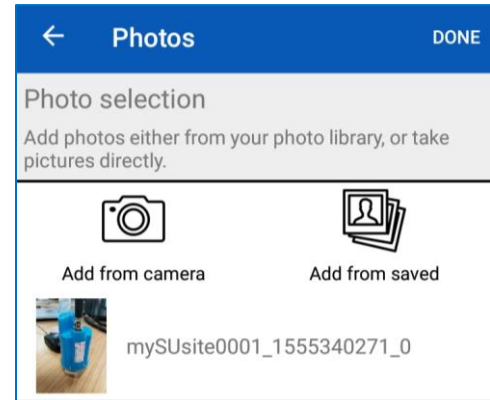
Tap
"Add from camera"

Take photos of installation site.

Tap
"Done"



Tap
"Save"



5. Upload to DataGate

Upload the deployment data to Datagate using the Upload icon (shown).
This uploads location details and also any photographs.

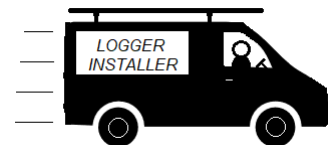
Note: It is important to sync frequently



6. Logger Deployment complete.

Leave site and go to the next site.

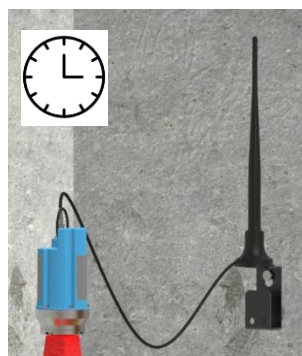
The logger will go to sleep.



7. Logger calls in with data.

Logger waits until it needs
to make leak evaluation.

Logger contacts DataGate
with daily results at call-in time.



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