



QUENSUS LEAK DETECTION  
**LEAKNET DATA SHEET**

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AUGUST 2022

# LeakNet

**LeakNet** is an internet enabled leak detection system ideal for all types of residential property, plant rooms, and commercial premises.



With **LeakNet** water consumption can be visualised anytime, from anywhere in the world, using a computer, tablet or smart phone. If a leak is detected an alert is immediately sent to the user via SMS and/or email.

To prevent water damage in the event of a leak **LeakNet** will automatically close an isolation valve to shut off the water supply.

A **LeakNet** system comprises a base unit, up to four water meters, and a shut-off valve for the water supply.

**LeakNet** is managed online, through your smart phone, tablet or computer, using a service App called **FlowReporter**.

The **LeakNet** base unit can be supplied with an optional internal rechargeable battery that provides up to 36 hours operation (depending on valve usage) in the event of the mains power failing. The internal battery is recharged by the **LeakNet** base unit once mains power is restored.

The **LeakNet** base unit should be located indoors but can attach to flow meters and valves up to 10m away (including those located outdoors). The exact flow meters and the isolation valve are interchangeable depending on the application and are available for 3/4" to 5" pipe sizes.

## Benefits

- Easy to use, on smart phone, tablet or computer.
- Monitors and learns normal water usage.
- Reduces flooding risk by turning water OFF when leak is detected
- Sends SMS/email alerts to any number of people.
- Ability to turn water ON or OFF remotely from anywhere in the world.

**FlowReporter**

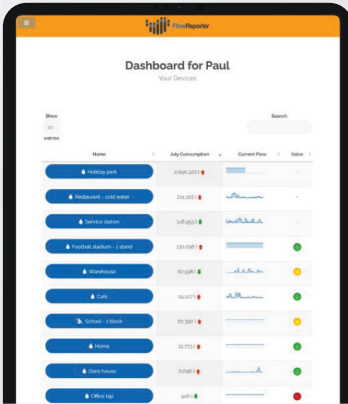
## Main Features

- **Managed using FlowReporter App on smart phone, tablet or computer.**
- **Single or multi-zone system.**
- **Compatible with almost any pipe size and configuration.**
- **Multiple LeakNet systems can be controlled in one FlowReporter account.**
- **Artificial Intelligence automatically tracks water consumption and learns the pattern of normal water usage.**
- **Sends SMS and/or email alerts if unusual water usage detected.**
- **Timed shutoff to automatically turn the water off out of hours.**
- **Powered through mains plug/adaptor.**
- **Optional battery back-up.**
- **Can be connected to a central BMS (and/or Fire Sprinkler system).**
- **Automatic solenoid valve testing (daily).**



# FlowReporter

The easy-to-use **FlowReporter** app allows any **LeakNet** system to be managed online.



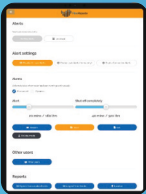
**FlowReporter** features “bank standard” SSL encryption to protect against hacking.

Multiple **LeakNet** systems can be monitored through one **FlowReporter** account, making it ideal for building management, concierge and landlords of multiple properties.

A “Daily View” displays detailed water usage over the previous 24 hours, split into seconds. A “Monthly View” provides an overview of water usage on a day-by-day basis.

The account administrator can grant limited access rights to other users, for example tenants, to allow them to get alerts and monitor water usage.

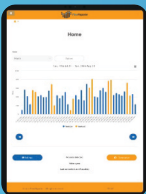
Prevent Water Damages



Find Leaks Fast in Realtime



High Precision Data



Learns your Unique Usage

Shut the Water Off Instantly

User	View	Alerts	Remote view	View data	Control valve	View graphs	Send alerts	Transfer device
John	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Jane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
John	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Share Access with others

# LeakNet Base Specifications

Dimensions (W x H x D)	145 mm x 112 mm x 47 mm
Weight	230 g
Power Supply (Base Unit)	12 V DC, 1.6 A (max)
Mains to DC power adaptor (switching PSU)	240 V, $\pm 10\%$ , 50/60 Hz, 0.15 A, 3-pin plug
Connectivity	WiFi as standard, upgradeable to 4G/LTE cellular
Alarm	Audio alarm (beeper)
Status indicator	Blue/green/red LED
Valve open indicator	Green LED (override push-button on front panel)
Valve closed indicator	Red LED (override push-button on front panel)
Ingress Protection	IP52
Operating temperature range	0°C to +30°C (32°F to 86°F)
Humidity	5% to 95% non-condensing
Construction	ABS plastic
Sensors	Up to 4 water meters
Output signals	1 x No-Volt relay
Output relay rating	240 VAC, 8 A
Output relay contacts	Common/Normally Open/Normally Closed
Max number of isolation valves per relay	1
Approvals	CE Marked, ISO9001 manufacturer
Compliance	Radio Equipment Directive 2014/53/EU Low Voltage Directive 73/23/EEC EMC Directive 89/336/EEC Restriction of the use of certain hazardous substances (RoHS) 2011/65/EU
Quensus Product Code	LKN4
Optional Battery Pack	Provides back-up for up to 36 hours (depending upon valve usage)
Recharge time	5 hours
In-service life of battery	10 years

## Meter Specifications

Thread size	¾ inch male BSPP	1 inch male BSPP	2 inch male BSPP
Dimensions	G ¾ A dia, 50 mm long	G 1 A dia, 60 mm long	300 x 170 x 190 mm
Pressure Rating	10 Bar	16 Bar	16 Bar
Temperature Rating	0°C to +70°C	0°C to +90°C	0°C to +30°C
Nominal Flowrate	1.8 m <sup>3</sup> /hr	3.6 m <sup>3</sup> /hr	16 m <sup>3</sup> /hr
Pressure Loss	0.25 Bar @ 0.9 m <sup>3</sup> /hr	0.08 Bar @ 1.8 m <sup>3</sup> /hr	0.16 Bar @ 8 m <sup>3</sup> /hr
WRAS Approval No.	1605300	1705302	1512046
Body Material	PPO Noryl GFN3	Brass CW617N	Brass and plastic

## Valve Specifications

Thread size	¾ inch male BSPP	1 inch female BSPP	2 inch female BSPP
Type	Solenoid valve	Motorised valve	Motorised valve
Dimensions (L x H x W)	105 x 64 x 68 mm	103 x 81 x 65 mm	124 x 124 x 190 mm
Pressure Rating	10 Bar	10 Bar	40 Bar
Temperature Rating	0°C to +60°C	0°C to +90°C	0°C to +60°C
WRAS Approval No.	1306015	2012025	1702052
Body Material	PA 6,6 30% fibre glass	Stainless steel SS304	Chrome plated brass



# Quensus

Intelligent water management



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