

iB4T

# LEGIONELLA COMPLY!

WATER TEMPERATURE MONITOR



To find out more visit [barterforthings.co.uk](http://barterforthings.co.uk)

WAVETREND))



WND

## WATER TEMPERATURE MONITOR

# WAVETREND'S WATER TEMPERATURE MONITOR ENABLES BUSINESSES TO COST EFFECTIVELY MEET THEIR STATUTORY OBLIGATIONS TO PROVIDE HEALTHY WATER AND SAFE SUPPLY SYSTEMS.

The risk of legionella bacterium, together with scalding and freezing conditions, is mitigated by actively monitoring hot, cold, and blended outflows. Alerts and daily reports are provided via the Sigfox network to ensure that timely action can be taken. With a battery life of over 5 years, the device provides an attractive alternative to traditional inspection visits.



TARGETED WORK  
ORDERS



SELF REGULATED  
ALERTS



AUTOMATED  
REPORTING

OUR WAVETREND SENSOR £69.50 WITH LEGIONELLA  
COMPLY! SERVICE FROM £5.99 PCM

FOR EVERY £10 YOU SPEND ON MANUAL INSPECTION OUR PREVENTATIVE  
MAINTENANCE TECHNOLOGY COSTS JUST £1

### KEY FEATURES

Daily reports

Real time temperature alerts

Easy installation

Configurable temperature thresholds

Over-the-air configuration

Sigfox Class 0 radio performance

Long battery life

### BENEFITS

Enables statutory record keeping requirements to be met

Allows proactive and timely response, for example to scald events

Clip-on pipe sensors and flanged screw mount enclosure mean fast, straightforward installation

Flexibility to configure individual devices based on local health and safety regulations

Allows device configuration to be updated whilst in-service and ensures real time clock synchronisation

Robust communication ensures reliable delivery of report messages

Long service life with minimal maintenance visits

CASE STUDY

# HOT WATER SCALDS. LEGIONELLA KILLS

VIVID

PROTECTING YOUR WATER IS HIT-AND-MISS.  
BUT IS MANUAL INSPECTION YOUR ONLY PROTECTION?

WE WORKED WITH VIVID TO DELIVER FULLY AUTOMATED REMOTE MONITORING OF IN-HOME WATER QUALITY FOR LEGIONELLA WITHOUT THE NEED FOR MANNED TESTING.

For the first time in the UK housing sector, IOT sensors are being used to provide a valuable 'scald alert' service that gives Vivid a direct warning of any boiler issues enabling repair teams to respond quickly. We use digital sensors attached to in-flow water pipes that collect and send data via the internet for processing.

Our Artificial Intelligence systems then produce a daily water quality report. The same sensors are also used to send warnings of any abnormal boiler water temperatures allowing proactive intervention from Vivid's repairs team.

Unique in the social housing sector, our system eliminates the need for manned inspection and helps Vivid provide a faster response while reducing dependency on customers to report problems.

“OUR FERNHILL IOT PROJECT MARKS THE MOST SIGNIFICANT INITIATIVE SO FAR IN VIVID’S FOR TECHNOLOGY-DRIVEN SERVICE INNOVATIONS STRATEGY. OUR FERNHILL CUSTOMERS WILL GET AN IMPROVED CUSTOMER EXPERIENCE AND SAFETY REASSURANCES WHILE VIVID WILL SEE GREATER COST EFFECTIVENESS. WE WANT VIVID CUSTOMERS TO BENEFIT FROM OUR ABILITY TO DISRUPT TRADITIONAL HOUSING SERVICES MODELS AND IMPROVE THEIR WELLBEING.”

**Justin Crittall**, Head of Innovation and Repairs, Vivid

# WATER TEMPERATURE MONITOR

## SPECIFICATIONS

### Environmental

Operating temperature	-10 to +60 °C
Relative humidity	95% non-condensing
Ingress protection	IP54

### Physical

Size	130mm x 65.5mm x 25.5mm
Weight	130g, excluding sensors
Colour	White
Material	ABS (UL94-V0)

### Power

Type	'A' size, primary lithium-thionyl chloride (Li-SOC12) battery
Voltage	3.6V
Capacity	3600mAh
Compliance	Compliant with IEC 60086-4 safety & IEC 60079-11
Transport	intrinsic safety (class T3) Non-restricted for transport, not assigned to Class 9 according to the UN recommendations on the transport of dangerous goods

### Radio

Frequency	868MHz
Uplink class	Sigfox Class 0
Sigfox radio zone	RC1
Antenna	Integrated, 2.5dBi
EIRP	16dBm maximum, software configurable

### Temperature Sensors

Type	Up to 3 NTC thermistor temperature sensors with pipe clip fixings
Range	-10 to +100°C
Accuracy	1%
Pipe clips	To suit a range of pipe diameters
Cable	1m length standard, terminated with Molex SL series plug

### Certification

CE/radio equipment directive (RED) interface	RF exposure - EN 62479 Safety - EN/IEC 62368 EMC - ETSI EN 301 489-1/3 RF - ETSI EN 300 220-1/2
Ingress protection	Testing to IP54 standard
Sigfox Network	Sigfox Ready certification



To find out more visit [barterforthings.co.uk](http://barterforthings.co.uk)

**B4T** Thingmongers, 26 Upper Market Street,  
Eastleigh, Hampshire SO50 9FD UK

E [solutions@barterforthings.co.uk](mailto:solutions@barterforthings.co.uk)