



Radio solutions for M2M & IoT Applications

Wireless Environmental Sensors
Richard Hathaway – Product Manager



Wireless Sensors Expertise using LPWAN technology

- LPRS CS offers a range of wireless sensor devices for IoT / IIoT / M2M applications.
- Decades of design experience and expertise producing wireless battery powered sensors.
- Standard range of products which are customisable if required.
- Full turnkey developments undertaken on specific projects.
- Customer led approach, responsive to requirements.
- Experienced with many modern techniques and technologies used including LoRaWAN, Sigfox, NB-IoT, Cellular and soon IQRF.
- Design - Build - Sale business model.

Wireless sensor range

LPRSCS-THLM

Environmental

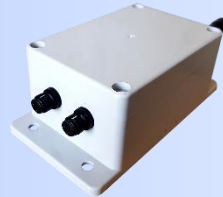


- ❖ Temperature, Humidity, Light, Movement wireless sensor.
- ❖ Indoor monitoring applications.
- ❖ Internal sensors, antenna and battery.



LPRSC-MSS

Industrial



- ❖ Multi-Sensor wireless device.
- ❖ Simultaneously monitor up-to 4 analogue sensors.
- ❖ Internal battery, external antenna and sensor connectors.



LPRSCS-ULTRA

Distance



- ❖ Ultrasonic wireless device.
- ❖ Industrial wireless distance measurement from 20cm to 1.5m.
- ❖ Internal sensor, antenna and battery.



Long range,
low power



Temp, Pulse,
Current & more



Robust wireless
protocol



Sensors



- Hundreds of sensors per network, configurable report in times from 1 min to 1 day.

USB Gateway



- A centrally located USB wireless hub collects the sensor data & relays to a connected PC or server.

Client System



- PC collects, collates or forwards data for analysis.

Long range,
low power



Temp, Pulse,
Current & more



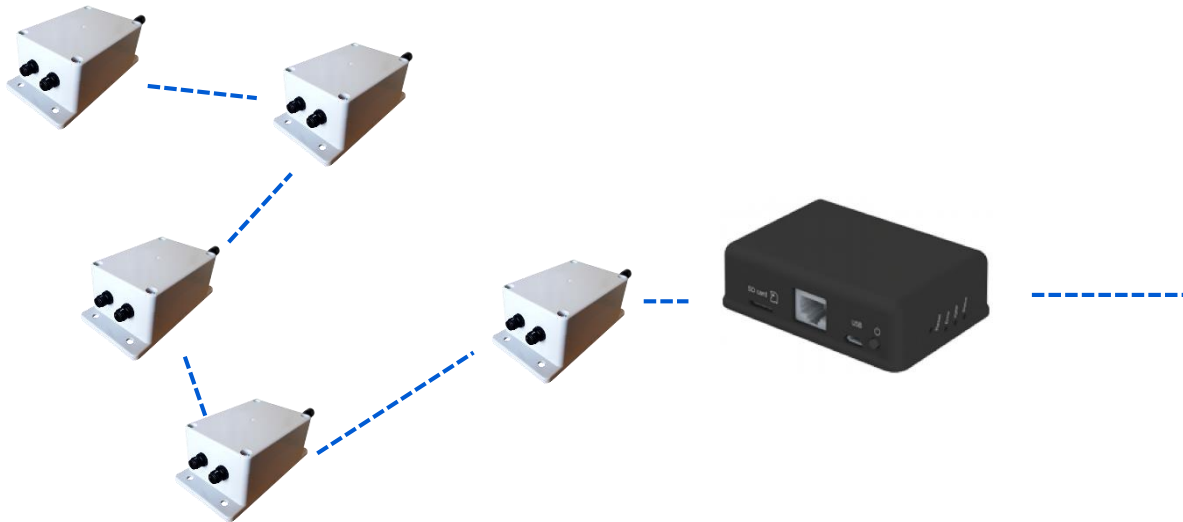
Robust wireless
protocol



Sensors

IQRF Gateway

Client System



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Long range,
low power



4 x Analogue
Sensors



Robust wireless
protocol



Wireless

- LoRa long range (up-to 8km) low power wireless device.
- Internal PCB mounted 868MHz or 915MHz Antenna.
- Easy but robust networking protocol.

Sensors

- Inputs: Up-to 4 cabled analogue sensor inputs
- Temp: 3" Probe or Pipe Clamp.
- Current: Current transformer 0-60A
- Other: Many other sensor types supported

Operation

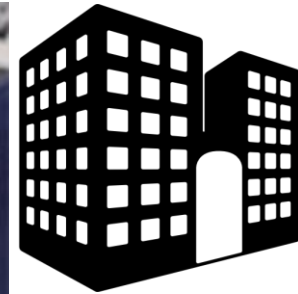
- Single C 3.6V battery powered for multi-year deployment life.
- Wired programming interface for configuration.
- Pre-installed wireless networking connectivity.
- Hundreds of devices per network.
- Configurable reporting intervals, 1 min to 1 day.



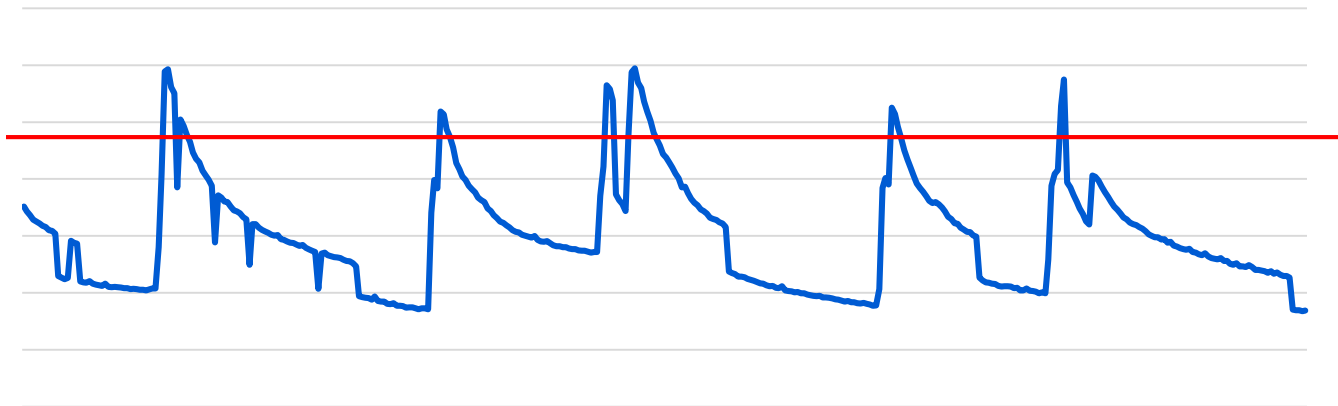
Customer
brandable



Legionella monitoring – The problem



Legionella monitoring –The Solution



Get in touch

Thank you for your time, we look forward to discussing your requirements soon.

If you have any questions in the mean time please contact us:

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