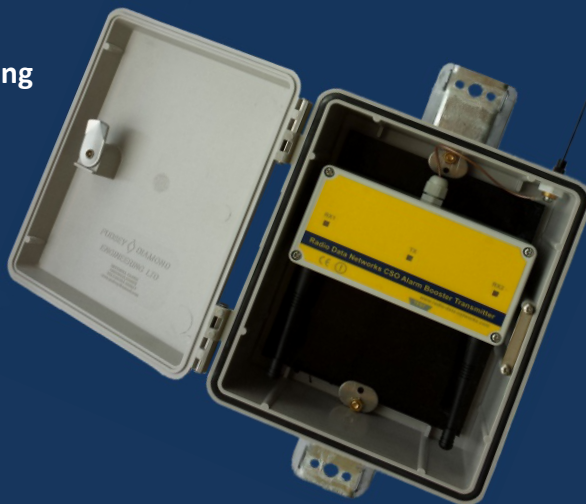


**Network  
Boosters**

# Wide Area Network Booster/Repeaters

**With Option of Operating on Secure Ofcom Licenced Band**

Remote Manhole Security Alarms  
Wide Area Sewer Blockage Monitoring  
Remote CSO EDM Monitoring  
Remote Flood Management  
Leakage Management  
BIG Data Harvesting for Analytics  
Wet Well Pump Chamber Alarms  
Vacuum Sewage Pot Monitoring



**RDN**

[www.radio-data-networks.com](http://www.radio-data-networks.com)



# Wide Area Network Boosters/Repeaters

With Option of Operating on Secure Ofcom Licenced Band

## Wider Area Network Booster/Repeaters

The RDNET1000™ Booster/Repeaters have been designed to intercept the short range signals from our range of smart sensors such as our blocked sewer alarms, CSO overflow EDM monitors, temperature transmitter, machine vibration monitors and meter reading solutions and then re-broadcast them over a radius of up to 5km.

The units are battery powered and feature spatial diversity for maximum up-link resilience. Boosters are available in a variety of enclosures including covert, pole mounting, bollard and integrated solar. Boosters can be deployed in almost any location permitting BIG data networks to be constructed across factories, airfield, industrial sites, between villages and in rural locations devoid of other forms of communication such as cellular or Wi-Fi.

Uniquely, for a small annual fee, we are able to offer our industrial, agricultural, rail and utility customer the security of operating on our exclusive Ofcom licenced radio band. Communication on this band has many advantages including the full protection of Ofcom against malicious interference. Licence cost can equate to as little as £0.0005 per message!



## Application includes:

- Wide area AMR
- Industrial & utility blocked sewer monitoring
- CSO monitoring
- Wide area leakage and pressure management
- Flood alarms and management
- Airfield monitoring
- Pollution monitoring
- Pumping station flood alarms

## Key Features:

- Band II & licence free VHF options for the UK & ERMES for Europe. Custom frequencies available to FCC part 15 & FCC Part 90
- Includes spatial diversity to optimise the uplink
- Up to 5km broadcast range
- Automatic acceleration of reporting rate (5 min – 2 min) during alarm events for applications such as combined sewer overflow EDM monitoring and security
- Large choice of enclosures:
  - o Bollard options for highways use
  - o Pole mounting enclosures for street lamps
  - o Covert bird house units for parks
  - o Freestanding solar powered units
- Battery packs field replaceable – typical 5-year life or 10-years with solar assist
- Test Modes to accelerate transmission rate
- Solar assisted options, with double skin sealing
- No Software or programming required
- Automatic health message generation



- Remote Asset Monitoring
- Radio Telemetry
- Environmental Monitoring
- Energy & Water Sub-Metering
- Water Quality Monitoring
- Sewer & CSO Monitoring
- SCADA & Pump Control
- Temperature & Humidity

[www.radio-data-networks.com](http://www.radio-data-networks.com)

The Innovation Farm, Sawbridgeworth Road,  
Little Hallingbury, Nr Bishop's Stortford,  
Hertfordshire, CM22 7QU, ENGLAND

Tel: +44(0)1279 600 440 6 - Lines

E-mail: [sales@radio-data-networks.com](mailto:sales@radio-data-networks.com)

Copyright Radio Data Networks 2014 ISSUE 2.0