

Gutter Sensor – RL4504

Hanwell have teamed up with Hutton & Rostron to develop a wireless gutter monitoring system. Areas that previously have not been monitored due to the high cost of hard wiring can now be protected using proven H+R gutter sensors and Hanwell wireless transmitters.

The most important sources of moisture causing timber decay in buildings are those associated with leaks from defective roof drainage, for example as caused by loss of lead guttering or as a result of the blockage and overflow of roof drainage systems. Of these, overflow and blockage of roof drainage can be the most dangerous as blocked drainage can result in the significant accumulation of water in the structure. This then acts as a long term reservoir of moisture which feeds decay.

Common causes of blocked roof drainage are leaves and the activities of feral pigeons. However, it is surprising how often detritus such as tennis balls and plastic bags are found blocking hopper heads even on the highest of roofs. Similarly, ice and snow can block drainage systems, especially on the roofs of historic buildings which have roofs which require regular cleaning.

Ignoring a problem with your guttering can lead to a number of effects. Discolouration of your external walls and internal finishes or penetrating damp problems within walls is a common problem. Valuable contents are highly vulnerable. A badly fitted or maintained gutter that blocks and overflows could allow water to penetrate the masonry putting at risk of decay timbers that are built-in to the structure or in contact with it. Another serious effect of prolonged and excessive overflow is localised subsidence. Excessive amounts of water overflowing from your guttering will cause a number of serious problems to a building and its contents, some of which could cost many thousands of pounds to repair. Special

attention is therefore required to manage risk and minimise defects, blockage and leaks.

Any client with an existing Hanwell wireless monitoring system can now add wireless gutter monitoring and alarms to their system, alternatively a new wireless back bone can be quickly installed.



Above: Gutter sensor



Benefits

- Prevent damage to building structure
- Avoid damage to internal contents
- Easy and quick installation
- Easily integrated into an existing Hanwell monitoring system

Typical Applications

- Building monitoring and control
- Outdoor drainage sensor
- Remote alarming

Hanwell's outstanding wireless technology makes using wireless sensors in large difficult buildings possible. The system is flexible and can be expanded to allow other parameters such as temperature, humidity, flood, building energy performance etc to be monitored.



Example of a gutter sensor installation

The sensor has been carefully designed to ensure that it will not be triggered by rain dropping onto it, but only activates once the sensor has become submerged, signifying that the gutter is overflowing and requires attention.

This product has been designed to comply with the RoHS and WEEE EU directives, and carries the CE mark.

Features

- Built in gutter sensor and transmitter
- Completely self contained (battery operated)
- Up to 12 month battery life
- Radio range can reach to 3km over open ground
- Minimally invasive to install



A typical example of internal wall deterioration due to damp penetration putting contents at risk

Product Code **RL4504-xxx.xxx = Basic unit**
(e.g. RL4504-434.075)

Series **GutterWatch**

Instrument

Dimensions: 167 x 90 x 540 mm
Weight: 780g (complete with sensor and bracket)
Power Supply: 1 x AA Lithium battery
Battery life: 24 months (occasional trigger)
Case Material: ABS
Cable: 3m armored polyethylene

Radio

*Radio Frequency: 434.075MHz or 433.920MHz
Radio Power: 10mW
Radio Range: 3 km over open ground

Sensor

Dimensions: 82 x 21mm diameter
Sensor head Material: Molded Nylon
Operating Temperature Range: -35°C to 70°C

Disclaimer

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