CaTeC

M E E T I N S T R U M E N T A T I E

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RFBUG

DATA SHEET

www.the-imcgroup.com

RFBUG

Hanwell's RFBug is part of Hanwell's advanced series of temperature and humidity radio transmitters. They allow wire-free monitoring of a site, with real-time alarm notification and historical analysis of data. Each unit reads on-board sensors to provide accurate and reliable information about environmental conditions. This data is transmitted, at user-defined intervals, to the Radiolog system where it is filed for analysis.

The RFBug has a precision temperature sensor and a high quality humidity sensor. Transmitter ID number and transmission rate are set using dip switches accessible through the back of the case.

Temperature and humidity are closely interrelated. Some independent effects of high temperature and humidity include increased biological activity, and acceleration of chemical deterioration processes.

Product Features

- Wireless data transfer
- High performance technology with accurate connecting probes
- Low power radio for long distance transmission (Over 3km over open ground)
- User accessible battery and USB socket
- Slots in back of unit for wall brackets
- Complies with RoHS, EU and WEEE directives
- Carries CE Mark

Benefits

- Accurately monitor temperature and humidity in confined spaces
- Provides accurate and reliable information
- Assists building maintenance and conservation
- Versatile and discreet
- Moulded case allows easy access to the battery

Format

Indicator	✖
Data Logger	✖
Radio Transmitter	✔

CE ☒ **RoHS**

Radio Transmitter Functions

Frequency Options: A range of frequencies are available between 433-458MHz. Country specific regulations apply.
Radio Power: 10mW
Radio Range: 3km over open ground
Battery Life: Up to 18 months
Software required: W400 – RadioLog 8.4+
W500 – RadioLog 8.4+ Validated software for: Industrial, Food, Pharma & Hospital
Hardware required: SR2 – Smart Receiver
CR2 – Controller
REP – Repeater
Accessories: 88715 – AAA Alkaline battery
Y125 – Wall mounting bracket
This product can be calibrated to your specifications, contact us for further details.

N.B Instrument operating range -34°C to +66°C in a non-condensing RH environment
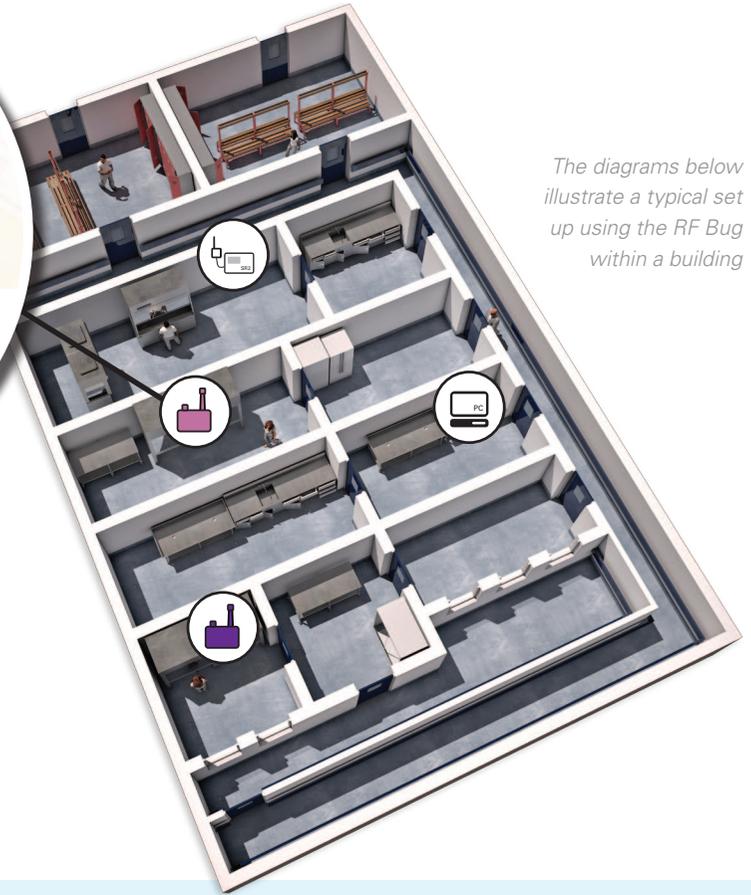
In Building monitoring

The RFBug is a discreet, slim-line device that enables users to carry out wire-free monitoring of specific areas. At just 105 x 65 mm, less than an iPhone, the RFBug is the smallest device of its kind. It has been specifically designed to fit in small areas.

Radio system
(requires radio receiver)

SR2 PC

Parameters

■ Temperature

■ Temperature & Humidity

The slimline casing enables users to fit a monitoring device into small areas. It can be hidden for discreet monitoring if required and can transmit through fridge and freezers or other contained environments. Contact us for more information.

The diagrams below illustrate a typical set up using the RF Bug within a building

Technical Specifications

Description	Slimline temperature and humidity radio transmitter with onboard sensors	Single channel Thermistor unit with 2 pin lemo socket for Thermistor remote probe.	Single channel Thermistor unit. Fitted with internal temperature sensor.	Single channel transmitter with fixed temperature probe.
Product code	RFBUG-434.075 (other frequencies available)	RL401-44.075 (other frequencies available)	RL407-434.075 (other frequencies available)	RL410-434.075 (other frequencies available)
Product Sensors		Option 1: Y300 – Short precision Thermistor probe mounted directly on a 2-pin Lemo plug. Option 2: J095-05 – Precision Thermistor probe, 3 mtrs cable with 2-pin Lemo plug. Option 3: J097-05 – Precision Thermistor probe, 5 mtrs cable with 2-pin Lemo plug.		
Internal Temp. Sensor	Precision Thermistor		Precision Thermistor	
Range	-20°C to +55°C		-20°C to +55°C	
Accuracy	±0.2°C		±0.2°C	
Resolution	0.1°C		0.1°C	
External Temp. Sensor		Precision Thermistor		Precision Thermistor
Range		-40°C to +55°C		-40°C to +55°C
Accuracy		±0.2°C		±0.2°C
Resolution		0.1°C		0.1°C
Humidity Sensor	Capacitive			
Range	5% to 100% non-condensing			
Accuracy	±3%			
Resolution	0.1%RH			

Instrumentation Specification

Dimensions: 105 x 65 x 19mm
Weight: 100 grams (without battery)
Power Supply: 2 x AAA Alkaline battery
Case Material: ABS
Memory Capacity: 100,000 readings