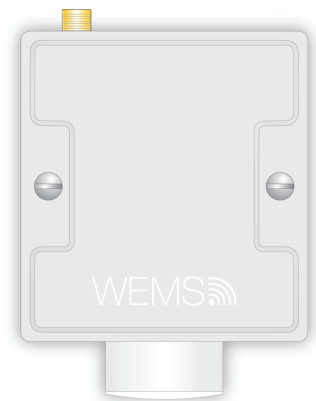


## Product Description

The WEMSuniversal sensor is a battery powered wireless sensor for WEMS International's wireless building energy management system; providing 1 digital input, 2 temperature/light sensor inputs and battery status.

**i** For product operation and installation information please refer to the WEMSuniversal sensor user manual.



## Features

- 2 Thermistor/light sensor inputs
- Digital input configurable for status or alarm
- High performance wireless narrow band operation
- Up to 2Km line-of-sight range
- Multi-hop wireless protocol
- License-free use
- 69 selectable RF channels
- IP65 rated
- Conformal coated to protect against condensation
- Long battery life

## Compliance

### EMC

- EN 301489-1: 2008
- EN 55022: 2006
- EN 61000-4-3: 2006
- EN 61000-4-2: 2001

### Safety

- EN 60950: Information technology equipment
- EN 60730: Automatic electrical controls
- EN 50366: Domestic equipment

### Wireless

- EU R&TTE directive for 25kHz
- EN 300 220: EMC standard for short range devices
- EN 301 489: EMC standard for radio equipment and services

## Specifications

Operating Temperature Range	-10 to +80 DegC
Operating Humidity	< 90% RH (Non condensating)
Storage Temperature	-20 to +85 DegC
Storage Humidity	< 90% RH (Non condensating)
Supply Voltage	9VDC
Supply Source	Lithium PP3 (U9VL-J, U9VL-X, U9VL-FP, U9VL-FP & ER9V)
Current Consumption Average	~5uA
Current Consumption Peak	25.4mA
Battery Life Expectancy	up to 5 years, dependent on settings and environment
Thermistor input	10KΩ Thermistor 10K3A1 (Resistive)
Digital input	'Volt free' (Internal DC supply) or Opto Isolated, 50VDC max, threshold level ~5.5V
RF Frequency	433.05 - 434.79MHz
RF Output	8dBm max
RF Sensitivity	-115dBm
RF Bandwidth	25kHz (Narrow band)
RF Channels	69
Antenna connector	Female 50Ω SMA (SubMiniature version A)
Weight	TBA
Enclosure	Flame retardant polycarbonate, IP65
Mounting	Direct surface mount, 4x mounting holes

## Dimensions

