



## Product Description

The WEMSSoutside sensor is a battery powered wireless temperature sensor for WEMSS International's wireless building energy management system. Designed for the measurement of external temperatures.

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



## Features

- Accurate temperature readings
- 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

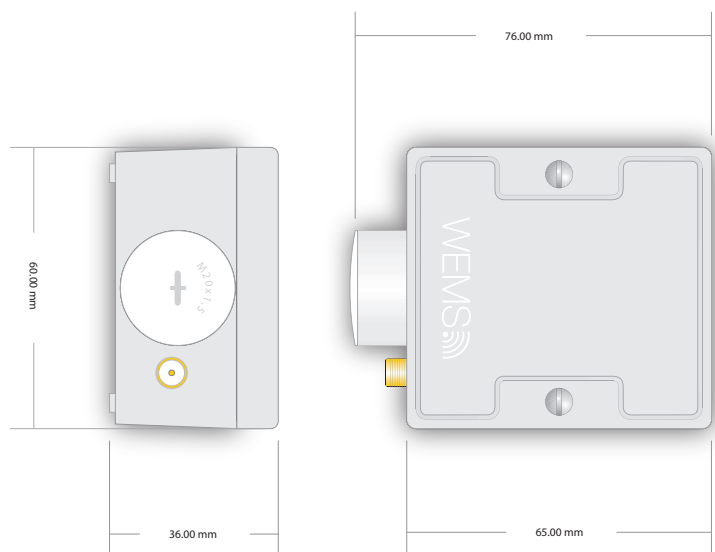
### Wireless

- 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
Temperature Sensor Resolution	0.1 DEGC
Temperature Sensor Accuracy	+/- 1 DEGC
Temperature Sensor Range	-10 to +80 DEGC
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



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www.wems.co.uk