



Product description

The WEMS Temperature and Humidity duct sensor is a battery powered wireless device; providing temperature measurements with a range of -40 to +120°C and humidity measurements with a range of 0 to 100% RH. Designed to be mounted on air ducting for monitoring of ventilation and air conditioning systems, typically on the supply and return.

Features

- Relative humidity sensor
- Temperature Sensor
- Duct mount
- High performance wireless narrow band operation
- License free use
- Low power, long battery life

Specification

Temperature & Humidity

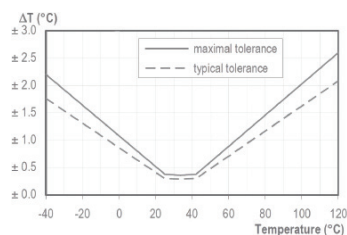
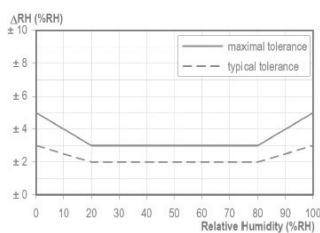
Operating Temperature Range	-10 to +70°C
Operating Humidity	< 90% RH (Non condensating)
Storage Temperature	-10 to +85 °C

Power

Supply Voltage	9V
Supply Source	UTRALIFE J9VL-J Lithium battery
Current Consumption Idle/Sleep	~5uA
Current Consumption Peak	26mA
Battery Life Expectancy	Up to 5 years*

Humidity & Temperature Sensor

Relative Humidity Sensor Range	0 - 100%
Relative Humidity Resolution	1%
Temperature Sensor Range	-40 to 120°C
Temperature Sensor Resolution	0.1°C



*Dependant upon settings & environment

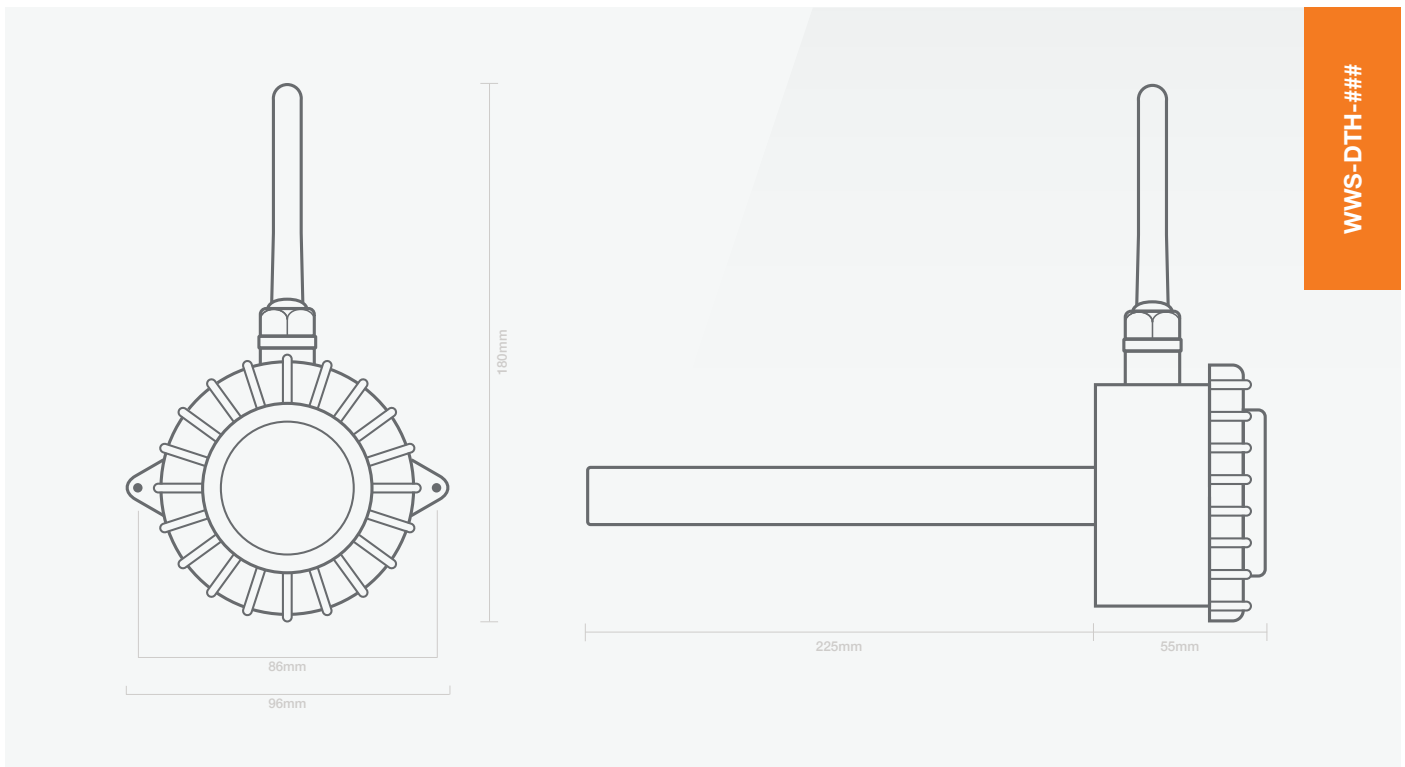
Wireless

	434MHz	868MHz	915MHz
Frequency	433.05-434.79MHz	869-869.6MHz	902-828MHz
Output	8dBm	10dBm	1dBm
Sensitivity	-115dBm	-108dBm	-110dBm
Bandwidth	25kHz	25kHz	25kHz
Channels	69	80	51
Antenna	434MHz SMA	868MHz SMA	915MHz SMA

Weight, Dimensions & Mounting

Weight	TBA
Mounting	Duct
Width	86mm / 96mm
Height	96mm / 180mm
Depth	55mm / 280mm

Diagram & Dimensions



Compliances

EMC

EN 61326-2-6 2013 using the common technical requirements of EN 61326-1 2013 and with reference to ETSI.
EN 301 489-3 V1.6.1

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

Safety

This product fulfils the requirements of IEC 61010-1:2010 (Third Edition) and IEC 61010-1 2001 (Second Edition).

Product Codes

WEMS 434MHz Temperature and Humidity Duct Sensor

WWS-DTH-434

WEMS 868MHz Temperature and Humidity Duct Sensor

WWS-DTH-868

WEMS 915MHz Temperature and Humidity Duct Sensor

WWS-DTH-915