

# Sense



**Plugwise**

The Sense is a temperature and humidity sensor for the Plugwise network. The battery-powered Sense is easy to install at the ceiling. Because of the wireless connection with the Plugwise network, no cables are required for installing the Sense.

Dimensions: 79.9 x 86.5 x 22 mm  
Power supply: 1 x 3,6V AA battery

ZigBee-MESH: 2.4 GHz

***Be wise, plug in.***

# Technical details

## Sense

Parameters	Min.	Nominal	Max.	Unit	Remarks
<b>Environmental conditions</b>					
Operational	0 5		60 95	°C %RH	Non condensing
Storage	10 20		50 60	°C %RH	Non condensing
<b>Temperature measurement</b>					
Operating range	0		60	°C	
Measurement accuracy	± 0.8		± 0.3	°C	Within operating range 0°C to 60°C
		± 0.6		°C	At 0°C
		± 0.3		°C	At 25°C
		± 0.8		°C	At 60°C
<b>Humidity measurement</b>					
Operating range	5		95	%RH	
Measurement accuracy	± 3.5		± 2.0	%RH	Within operating range 5%RH to 95%RH
		± 3.2		%RH	At 5%RH and at 95%RH
		± 2.2		%RH	Between 10%RH and 90%RH
<b>Power</b>					
Supply voltage	2.4	3.0	3.6	Vdc	
Battery lifetime	1	2		years	Using two 2400 mAh AAA batteries
<b>Mechanics</b>					
Dimensions		79.9 x 86.5 x 22		mm	(l x w x h)
Buttons		1			A single reset button is implemented
LED's		1			A single red LED is implemented
<b>Flash capacity</b>					
Storage capacity		512		kByte	Used for ZigBee firmware updates
Endurance		100.000		Cycles	Program / erase
<b>ZigBee communication</b>					
Baud rate			250	kbps	O-QPSK
Frequency	2400		2483.5	MHz	16 channels / 2.4 GHz ISM band
Bandwith		2.0		MHz	5 MHz channel spacing
Recieve sensitivity	-92	-97	-98	dBm	@ 1% per 20-byte packet
Transmission power	-32	3	5	dBm	

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