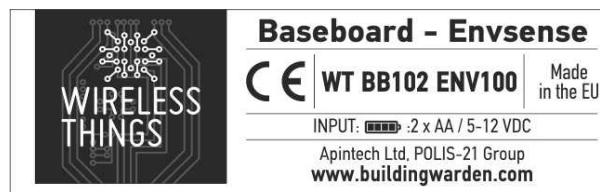


EnvSense



Description

EnvSense is an extension board fitted onto a Baseboard. It is used for measuring temperature, relative humidity and visible light of the space. A Baseboard with an EnvSense extension board can operate on 2xAA batteries for more than 6 months.

Specifications

Name of the Product	Baseboard- EnvSense
Brief Description	Wireless device for Ambient temperature/humidity/light measurement and external sensors
Rated Supply voltage (V, Hz, A)	2xAA Battery OR external power supply 5-12VDC, 500mA
Weight	gr
Size (H x L x W)	31mm X 113.82mm X 63.32mm
Connections	12: VOUT (3.3V OR SUPPLY), GND, 4xAIN, 3xAUX, 3xDIO
Max. clock frequency	16MHz
Data transmission distance	500m (open air) to 10- 20m (within buildings)
Standards	LVD EN 50491-3 EMC/ RTTE (ETSI 301 489-3, ETSI 301 481-1, EN 50491-5-2)
Operating Temperature	- 10 Celsius to 40 Celcius
Enclosure	Grey/ Black/ Blue plastic box

Sensor Performance

Relative humidity		
Parameter	Typical	Units
Resolution	0.05	%RH
Accuracy	±3	%RH
Repeatability	±0.1	%RH
Response time	8	s
Operating range	0 ... 100	%RH

Relative humidity		
Parameter	Typical	Units
Resolution	0.01	°C
Accuracy	±0.4	°C
Repeatability	±0.1	°C
Response time	5 ... 30	s
Operating range	-40 ... 123.8	°C

Visible light		
Parameter	Typical	Units
Resolution [1]	1 ... 70	lux
Accuracy	±0.5	lux
Repeatability	±0.5	lux
Response time	0.1	ms
Operating range	1 ... 28000	lux
Spectral range of sensitivity	475 ... 650	nm
Wavelength of max. photosensitivity	555	nm
Operating temperature range	-40 ... 100	°C

[1] resolution depends on the incident light intensity (Ev) equivalent to 0.0025*Ev lux with minimum 1 lux

Coding

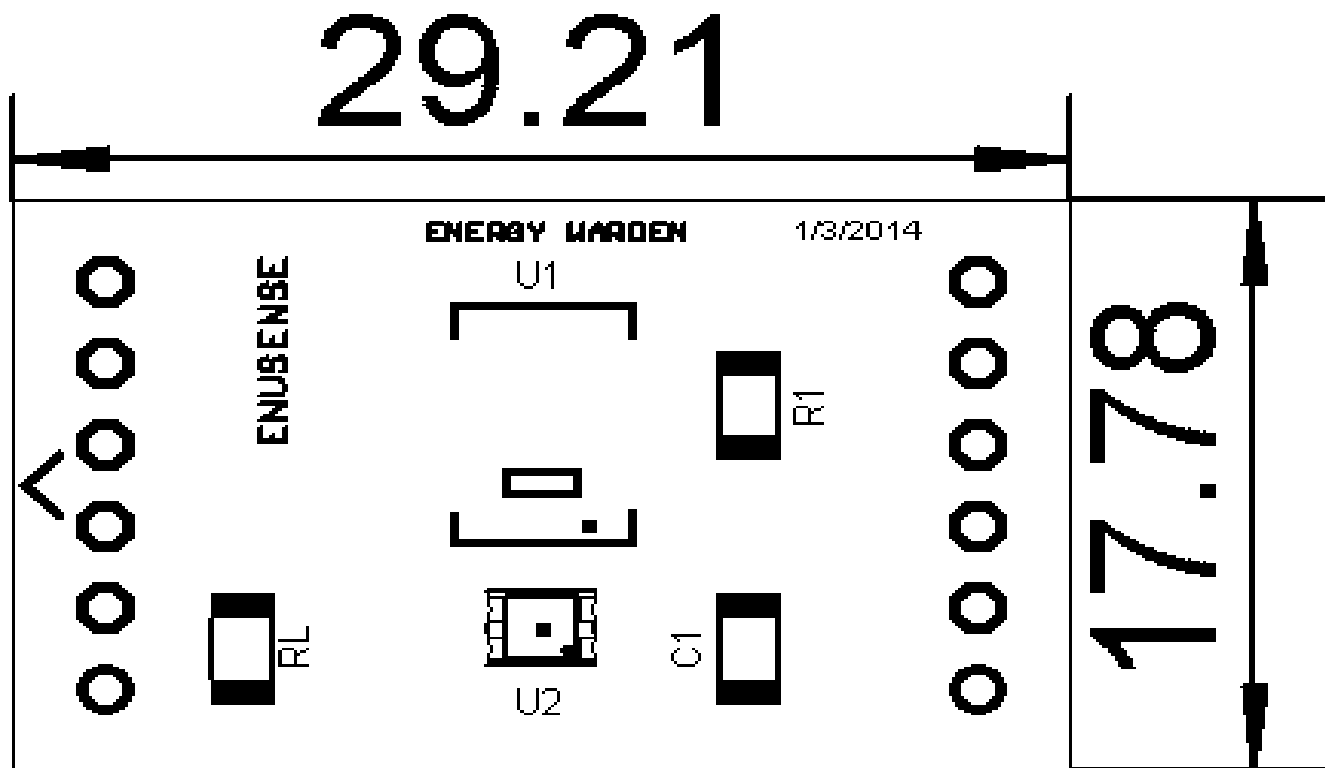
Baseboard modules with EnvSense extension board are coded as **WT BBxxx ENVzzz**

where:

xxx = version of BaseBoard

zzz = version of EnvSense extension board

Layout



Dimensions in mm.