

External Temperature Sensor

Our new stylish range of digital environmental sensors, SES 302 and SES 303, are designed for use within a Z-Wave® home automation network. Both units feature the same attractive, slimline enclosure. SES 302 measures temperature, while SES 303 measures both temperature and humidity.

The sensors are battery-operated devices that measure temperature and humidity and transmit the information to an associated device in Z-Wave a network.

SES 302 and SES 303 are fully compliant Z-Wave Plus™ devices. They will work with other Z-Wave enabled devices displaying the Z-Wave logo. They will also work with other manufacturers' Z-Wave devices, provided they are fully compliant.



Application

- Precise measuring of temperature and humidity and provides input to control system
- Fan control of ventilation systems & industrial applications
- Humidity control for improved health & living
- Climate control OEM products

Applications when using external tube or tank sensors

- Stratification of hot water storage tanks
- Tube & tank safety systems (correct temperature level)
- Optimization of heating systems
- Indirect flow detectors
- Dynamic temperature control of hot water tank

Benefits

- Reliable and accurate measuring
- Continuous monitoring of temperature and humidity
- Quick and easy to install and set up
- Can be expanded with external wired NTC temp sensor/ pipe-tank temp sensors
- Fully integrable with certified Z-Wave devices and systems

Features

- Choice of two models:
 - SES 302 – temperature sensor
 - SES 303 – temperature and humidity sensor
- Wireless Z-Wave Plus™:
 - extended area coverage
 - easier setup
 - longer battery life
- Portable / Wall mountable
- Battery-operated (two-year life) Co-ordinated colour scheme
Easy installation
- External wired temp sensors:
 - supports either one thermistor prob SES 001 or up to four external digital pipe/tank temperature sensors SES 002 / SES 003
 - Supports configurable data reporting
- Fixing compatible to British standard single gang wall box

SES 302 | SES 303

Technical specifications (specification applies to both SES 302 and SES 303, unless otherwise stated)

Electrical

Supply	Battery operated device (two AA batteries)
Battery type	AA, 1.5V, 2700mAh, alkaline manganese
Nominal life	2 years (with onboard & 4 wired temp sensors with the default configuration)

Measurement

Temperature accuracy (SES 302/ SES 303)	±0.5°C for 0°C to 40°C
Humidity accuracy (SES 303)	±3% RH from 20% to 80% RH
Accuracy of optional NTC	
Temperature probe (SES 001)	±1.0°C for 15°C to 85°C
Accuracy of optional pipe / tank	±0.5°C for 0°C to 65°C & ±1°C for 66°C to 85°C
Sensor (SES 002 / SES 003)	

Mechanical

Dimensions	85 x 85 x 30mm (surface mount),
Case material	Thermoplastic, flame retardant
Weight (single unit packing)	205 ± 30 g
Ball pressure test temperature	75°C
Mounting	Single gang wall box (supplied with wall plate)

Environmental

Storage temperature	-20°C to +55°C
Environmental humidity range	0%RH to 95%RH
Enclosure protection	IP 30
Atmospheric pressure range	980 to 1035 hPa

Compliance

Design standards	RoHS,  CE 
	IEC 61010-1
	R&TTE directive
	ETSI EN 300 220-2
	EN 301 489 part 1 and 3
	EN 61000-4-2 & 3

RF specification

Z-Wave Plus™ compliant	
RF frequency (Continental Europe and UK)	868.42 MHz
RF range	100 meters line of site, in open air

Ordering Information

SES 302 Temperature sensor	NU2010302000
SES 303 Temperature and humidity sensor	NU2010303000

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