

# Kube-Sky-RHT

Kube-Sky-RHT is a wireless indoor temperature and humidity transmitter. With its simple look, Kube-Sky-RHT will look great in e.g. office spaces.

Kube-Sky-RHT uses LoRa technology which enables very long-range radio coverage in wireless battery-operated device.

Typically used with Nokeval Cell-Sky-base station but can also be integrated to systems with RS485 Modbus RTU.



## General Specifications

Storage temperature	-30...+60 °C, non-condensing
Operation temperature	0...+60 °C
Operation humidity	0...100 %RH, non-condensing
Protection class	IP20
Enclosure material	Plastic (PC+ABS)
Dimensions	95 mm x 75 mm x 27 mm, Wall mount +1 mm
Weight	130 g with batteries
Internal battery type	2 pcs LR6 (AA 1.5 V alkaline)
Battery life	Typically 10 years (with default settings). For the estimated battery life, high quality batteries should be used, e.g. Energizer EN91.

## Radio Specifications

Nokeval radio type	Sky-radio
Antenna	Internal
Center frequency	433.3...434.5 MHz user adjustable
Bandwidth	max 300 kHz OBW, all transmissions fit within 433.05-434.79 MHz
Transmitting power	max 10 dBm E.R.P.
Open space range	up to 5 km
Indoor range	30 to 300 m typically with default Effort setting

## External supply with USB

Connector	Micro USB type B 5 ±0.5 V max 200 mA, no suspend function
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## External supply with a cable

Connector	Push-in spring connector for 0.2-0.5 mm <sup>2</sup> conductors
Voltage	5 ±0.5 V DC
Consumption	Average about 3 mA, momentarily max 200 mA

# Kube-Sky-RHT

## Temperature measurement

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Measurement range -20...+50 °C

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Accuracy  $\pm 0,5$  °C in the range of +10...+50 °C

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Step response time Approx. 45 mins to 90% of step change, still air

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## Humidity measurement

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Measurement range 0...100 %RH non-condensing

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Accuracy Typically  $\pm 3$  %RH at humidity of 20...80 %RH and at temperature of +15...+30 °C

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