

Kube-Sky-RHT-Lux

Wireless Transmitter

Kube-Sky-RHT-Lux is a wireless indoor temperature, humidity and illuminance transmitter. This Lux model measures the amount of light under normal room conditions, assisting in optimizing an appropriate visual environment.

With simple look, Kube-Sky-RHT-Lux will look great in e.g. office spaces or museums.

Kube-Sky-RHT-Lux uses LoRa technology which enables very long-range radio coverage in wireless battery-operated device. Device is typically used with Nokeval Cell-Sky -base station but it can also be integrated to systems with RS485 Modbus RTU.



APPLICATIONS

Commercial Indoor Spaces

Laboratories

Museums

PRODUCT HIGHLIGHTS AND FEATURES

Kube Lux assists to optimize indoor lighting by providing real-time data of lighting levels

Semtech LoRa modulation technique allows unforeseen wireless range in a battery powered transmitter

Wide illuminance measurement range from 0 up to 2000 lux or wider

Easy installation, effortless in use and simple to configure



Kube-Sky-RHT-Lux



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
-----------	---

External supply with a cable

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

Kube-Sky-RHT-Lux

Temperature measurement

Measurement range	-20...+50 °C
Accuracy	±0,5 °C in the range of +10...+50 °C
Step response time	Approx. 45 mins to 90% of step change, still air

Humidity measurement

Measurement range	0...100 %RH non-condensing
Accuracy	Typically ±3 %RH at humidity of 20...80 %RH and at temperature of +15...+30 °C

Illuminance measurement

Measurement range	0...2000 lux or wider
Accuracy	±20 % at 50...2000 lux at 20...30 °C with a typical indoor lighting spectrum and light coming directly from front
