

# Flex-Sky-nSens-HT-EIS

Flex-Sky-nSens-HT-EIS is a wireless temperature transmitter which measures temperature and humidity using a Novasina nSens probe. Device can be used in high humidity places and has extremely precise and fast humidity sensor.

Flex-Sky-nSens-HT-EIS uses LoRa technology which enables very long-range radio coverage in wireless battery-operated device.

Typically used with Nokeval Cell2-Sky-Link-RS485-LTE/-LAN base station but can also be integrated to systems with RS485 Modbus RTU.



## General Specifications

Storage temperature	-40...+60 °C
Operation temperature	-30...+60 °C
Operation humidity	0...100 %RH
Protection class	IP65
Enclosure material	Plastic (Measuring module: PC+ABS, Radio module: PC)
Dimensions	481 mm x 33 mm x 61 mm
Weight	Total: 177 g Measurement module: 77 g (+ 19 g probe) Radio module with antenna: 81 g
Internal battery type	LR6 1.5 V alkaline AA size battery, e.g. Energizer EN91.
Battery life	Typically, 2-5 years depending on the measurement interval and the radio network traffic amount.

## Radio Specifications

Nokeval radio type	Sky-radio
Antenna	Dedicated ¼ wave whip with a BNC connector, Laird EXC420BNX or similar
Center frequency	433.3...434.5 MHz user adjustable
Bandwidth	max 300 kHz OBW
Transmitting power	max 10 dBm E.I.R.P.
Open space range	about 10 km with maximal parameters
Indoor range	150 to 500 m typically

## Sensor Specifications

Sensor type	Novasina nSens-HT-EIS Sensor is based on electrolytic-resistive measurement technology
Measurement range	Humidity: 0...100 % rH Temperature: -20...+80 °C
Accuracy, humidity	typically +/- 0,4% rH at +15...+30 °C and +/- 0,8% rH at 0...+50 °C
Accuracy, temperature	typically +/- 0,1 K at 0...+65 °C and +/- 0,2 K at -20...+80 °C
Drift, humidity	typically <1 %/year
Cable length	max 2 m