

DATASHEET

Wireless Temperature and Humidity sensor – Integrated Probe

LORA281111-TH-S31BLB-EU868

Name / SKU	LORA281111-TH-S31BLB-EU868
	
	Wireless Battery Powered Temperature and Humidity Sensor The LORA281111-TH-S31BLB-EU868 is a wireless battery powered Temperature and Humidity Sensor for data acquisition. It is used to measure the surrounding environment temperature and relative air humidity precisely, and then upload the data to the on-premises iQunet Edge (IPC) Server for direct use of data over OPC UA, MQTT or GraphQL API. The temperature & humidity sensor probe provides fully calibrated, linearized, and temperature compensated digital output with a strong reliability and long-term stability. The probe is integrated in the wireless node in a waterproof anti-condensation casing for long term use.
Product specifications	
Probe	Temperature Sensor: • Range: -40 to + 80 °C • Accuracy: ± 0.2 @ 0-90 °C • Resolution: 0.01 °C • Long Term Shift: <0.03 °C/yr Humidity Sensor: • Range: 0 ~ 99.9% RH • Accuracy: $\pm 2\%$ RH (0 ~ 100%RH) • Resolution: 0.01% RH • Long Term Shift: <0.25 %RH/yr
Power	Replaceable un-chargeable Li-SOCI2 battery Capacity: 8500mAh Self-Discharge: <1%/year @25 °C
Wireless data transfer	Frequency plan: EU868 Interface: LoRaWAN EU868MHz Data type: Measurements, time synchronization
Physical	Dimensions node + probe: 123 x 65 x 47 mm excl. antenna, excl. mounting feet Antenna height: 108mm Mounting node: 3 mounting feet Ø5 mm
Conformity	Certification: CE

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Product Usage



iQunet.® Edge - LoRaWAN sensor

Direct wireless connection / Edge local data storage

LoRaWAN to OPC UA / MQTT

on-premise

LoRaWAN to OPC UA / MQTT

Industrial Wireless sensor

Type: T°/RH

- T° (-40 to +85 °C)
- RH (0 to 99,9%RH)
- Wireless range: up to +500m (LoRa)
- Waterproof outdoor
- battery powered

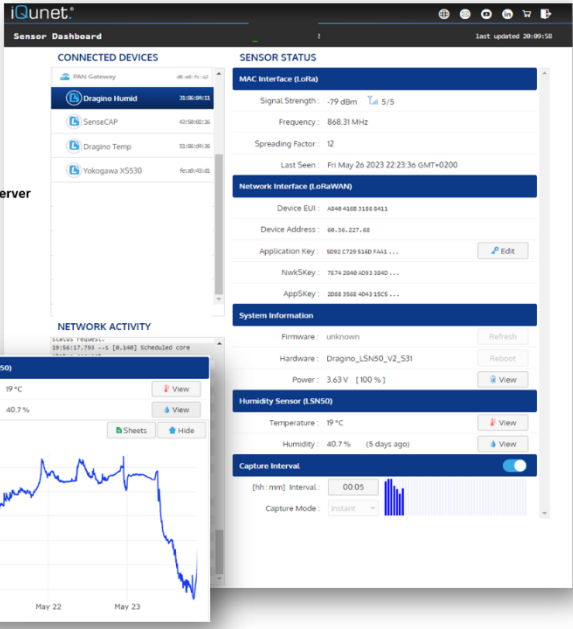
Use case:

- Remote Monitoring
- Environmental Quality Monitoring

Contact us: info@iQunet.com



iQunet Edge (IPC) Server



Temp. / Humidity

Humidity Sensor (S.N550)

Temperature: 19 °C

Humidity: 40.7 %

Humidity Level [n]

May 21 2023 May 22 May 23