

Temperature & Humidity Sensor

The Lansitec Temperature & Humidity Sensor leverages LoRaWAN technology for long-range connectivity and is powered by a 19,000mAh lithium thionyl chloride battery for up to 5 years of operation. Its IP65-rated enclosure makes it ideal for outdoor deployments in harsh environments, and the device can be easily managed via LoRaWAN downlink commands. Its compact design, cost-effective operation, and auto-calibration features ensure consistent performance with minimal maintenance.

Wide Measurement Range

Temperature from -40°C to $+125^{\circ}\text{C}$ ($\pm 0.3^{\circ}\text{C}$), and humidity from 0% to 99% ($\pm 3\%$).

Long Battery Life

19,000mAh battery provides up to 5 years of service, reducing replacement costs and downtime.

Robust Enclosure

IP65 protection and ABS housing safeguard against dust, water, and extreme temperatures (-40°C to $+85^{\circ}\text{C}$).

Flexible Connectivity

LoRaWAN 1.0.2B protocol, supporting frequencies like EU868, US915, AS923, etc., up to 2km range.

Auto-Calibration & Low Maintenance

Built-in auto-calibration ensures reliable data without frequent manual intervention.

Easy Integration

Works with Lansitec's wireless data transfer unit or existing LoRaWAN networks for rapid deployment.

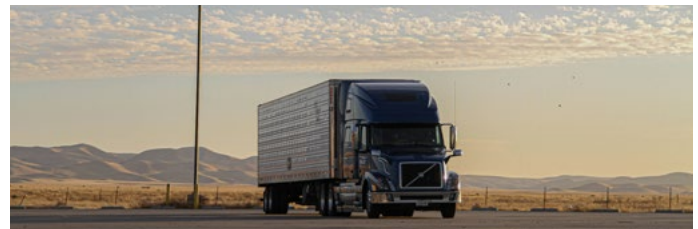


SCENARIO



COLD CHAIN MONITORING

Ensure consistent temperature and humidity levels for perishable goods throughout transport. Early detection of environmental deviations helps prevent spoilage, reduce losses, and maintain product quality.



TRANSFER MANAGEMENT

Monitor cargo conditions in real time during shipping or routing, enabling timely adjustments. Any anomalies trigger alerts, minimizing costly delays or damage to products.

LoRaWAN Temperature & Humidity Sensor



GREENHOUSE FARMING



REMOTE AGRICULTURAL STORAGE

Maintain ideal humidity and temperature for plants, improving yield and resource efficiency. Automatic monitoring helps farmers react quickly to changes in environmental conditions.

Deploy in granaries, barns, or crop storage facilities. Maintain optimal climate conditions to prevent mold, pests, or spoilage, preserving product value and reducing wastage.

SPECIFICATIONS

CONNECTIVITY

LoRaWAN Protocol	LoRaWAN 1.0.2B
LoRa Frequency	US915, AU915, EU868, EU433, AS923, RU864, KR920, IN865, CN470
LoRa Distance	>2km
LoRa Sensitivity	SF=7<-126dBm, SF=10<-136dBm, SF=12<-142dBm
Transmit Power	Maximum 20dBm, adjustable
Network Structure	Star/Peer to peer

MECHANICS

Dimension	ABS, 85*114*55mm
Weight	225g
Operating Temperature	-40°C~85°C
Operating Humidity	5%~95%
Temperature Measurement Range	-40°C~125°C, ±0.3°C
RH Measurement Range	0%~99%, ±3%
IP Protection	IP65
Antenna	Internal/External
Calibration	Auto calibration

POWER

Battery	19000mAh lithium thionyl chloride
Battery Life	5 Years

ORDERING INFORMATION

Product Description	Part Number
Temperature and Humidity Sensor, EU868, 19Ah	100-00139
Temperature and Humidity Sensor, AS923, 19Ah	100-00141
Temperature and Humidity Sensor, AU915, 19Ah	100-00193
Temperature and Humidity Sensor, US915, 19Ah	100-00194
Temperature and Humidity Sensor, RU864, 19Ah	100-00195

LoRaWAN Temperature & Humidity Sensor

Temperature and Humidity Sensor, IN865, 19Ah	100-00196
Temperature and Humidity Sensor, KR920, 19Ah	100-00203
Temperature and Humidity Sensor, CN470, 19Ah	100-00051

Certification	CE, FCC, RCM
----------------------	--------------
