



TF10LP LoRa & LoRaWAN Smart Temperature & Humidity Sensor: Accurate Measurements with superior performance.

The TF10LP is a cost-effective, compact, primary battery based LoRa Temperature and Humidity sensor that can be used in variety of use cases ranging from cold-chain monitoring, smart kitchens, data-centres, airports, retail shops and monitoring refrigerators, chillers etc. The compactness and the design of the sensor makes it easy to use without any hassles.

#### **Key Features**

- · Range up to 2000 meters
- · Battery life up to 3 years
- · Configurable sampling frequency
- · Accurate measurements:
  - o Temperature ±0.3°C
  - o Humidity ±2RH
- · Best in class performance
- · Robust and reliable design
- · Remote configurations
- IP66 rating

## **Applications**

- · Distribution and cold chain
- · Data centres
- · Smart Kitchens
- Airports
- · Industrial
- Pharmaceutical



65mm x 27mm x 101mm

## **Key Benefits**

- · Real-Time Alerts: Instant notifications for temperature or humidity breaches to prevent spoilage.
- · Environmental Monitoring: Tracking of temperature and humidity to ensure product integrity.
- · Regulatory Compliance: Auto-generated audit trails and reports for effortless regulatory alignment.
- Industrial Grade Design: Suitable for harsh or moisture-prone environments.

## Robust Security, Seamlessly Integrated

- · Verified Boot Process: Ensures only trusted software from authenticated sources runs on the device.
- Hardened I/O Interfaces: External ports are access-controlled to prevent unauthorized intrusion.
- Strong Authentication: Secure user and device identity management with updated credentials and access controls.
- Encrypted Communication: Advanced encryption protocols for secure data transmission, including OTA updates.





# **Technical specifications:**

Parameter	Specification
Wireless Communication	LoRa
Power Supply	AA – non-rechargeable battery
Battery	3.6V Lithium Primary battery, 1650mAH
Operating Temperature	-25°C to +60°C
Operating Humidity	10% to 90%
Enclosure	IP66 [Food Grade]
User Indication	1LED
User Switch	Activation / Deactivation
Temperature measurement accuracy	±0.3°C, Drift less than 0.01°C per year
Humidity sensor measurement accuracy	±2%
Temperature sensor measurement range	-40°C to +80°C
Humidity sensor measurement range	0% to 100%
Operational shock	30g
Operational vibration	3.5g
Data backup	6,000 records
Dimensions	65mm x 27mm x 101mm
Product Life	7 years**
Communication Protocol	thinxview / custom Platform
Security	Encrypt (256-bit key exchange and AES-128)
Target Regions	Global

# **Ordering Information**

Part Number	Description
TFEN62P560	TF10Plus → Long Range Temperature Humidity Sensor without external probe
TFEN62P560E	TF10Pro → Long Range External probe temperature sensor for wide measurement range
TFEN62P560ED	TF10Max → Long Range On board Temperature Humidity Sensor + External Probe Temp Sensor for wide measurement range



Please visit for more information

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