

TEKTELIC TUNDRA Sensor

LoRaWAN® Device for Cold Chain Environment Monitoring

TEKTELIC's TUNDRA Temperature Sensor is the ideal solution for maintaining optimal and consistent temperatures within cold rooms and refrigerated areas. The device can be implemented within cold storage such as fridges, coolers, cold rooms and even freezers with minimal impact on battery life or radio signal strength. The Cold Room Temperature Sensor is seamlessly integrated with TEKTELIC's end-to-end IoT solution.

- **Restaurants**
- **Supermarkets**
- **Food Service Cold Chain**
- **Medical Storage**
- **Pharmaceutical Storage**
- **Vaccine Storage**

Technical and Functional System Specifications General System Parameters

| | |
|-------------------------|-----------------|
| Operational Temperature | -40°C to +85°C |
| Ingress Protection | IP67 |
| Size | 67 x 43 x 36 mm |
| Battery | C Cell |



LoRa Parameters

| | |
|-------------------|------------------------------|
| RF Power | Up to 20 dBm |
| RF Sensitivity | Up to -137dBm (SF12, 125kHz) |
| ISM Band | All Global ISM Bands |
| Antenna | Internal |
| LoRa Device Class | Class A |

Regulatory Compliance

| | | |
|------------|----------------------|------------|
| Safety | IEC 62368-1 (CE) | |
| Regulatory | ETSI EN 300 220 | |
| | ETSI EN 301-489-1/-3 | |
| | FCC 15.247 | FCC 15.209 |
| | RSS-247 | RSS-GEN |

Specifications subject to change without notice.

Key Features and Applications

- » 15 Year Battery Life
- » Restaurant and Food Service Cold Chain
- » Medical, Pharmaceutical and Vaccine Storage
- » 125 Days/3000 Entries of Stored Data
- » Optional External Thermistor Probe
- » Small Form Factor for Diverse Deployments
- » Easily Integrated into LoRaWAN® Networks
- » Internal Antenna
- » Ambient Temperature & Humidity Monitoring