TF6

Monitor, Locate and Analyze perishable conditions. Get real-time visibility, alerts and be confident of the goods in transit - "every consignment matters"

The TF6 is a next-generation sensor purpose-built for cold chain monitoring of perishable goods. It delivers accurate temperature, humidity, ambient light, and live location data in a compact, cost-effective package. Designed for reliability in cold storage and transit conditions, the TF6 helps ensure regulatory compliance and product integrity. With a 60-day rechargeable battery (at 1-hour transmission intervals), it minimizes maintenance and downtime. Its user-friendly design and simple setup make it the ideal choice for end-to-end cold chain visibility.

Key Features

- Wireless Communication LTE/ 4G/ Cat.1/ 2G Fall back
- Seamless global roaming
- Assured lifetime accuracy (Calibration not required)
- Suitable for Road, Rail, Sea & Air cargo
- Battery life >60 days per charge [1 hour report interval]
- Movement/ Idle status detection
- Live Location [LBS - Wi-Fi & Cellular network]
- Food grade
- IP66 rating

Applications

- Cold Chain Logistics
- Pharmaceutical Supply Chain
- Perishable Food Transport
- Refrigerated Warehouses
- Air Cargo and Freight
- Last-Mile Delivery Monitoring
- Retail Cold Storage

115mm x 70mm x 21mm

Key Benefits

- **Real-Time Alerts:** Instant notifications for temperature or humidity breaches to prevent spoilage.
- **Live Location Tracking:** End-to-end visibility of reefer trucks and sensitive consignments in transit.
- **Environmental Monitoring:** Tracking of temperature, humidity, and ambient light to ensure product integrity.
- **Regulatory Compliance:** Auto-generated audit trails and reports for effortless regulatory alignment.
- **Trip Summary & Reports:** Detailed trip logs with breach history, stop durations, and condition metrics.
- **Idle Time Analysis:** Logs total idle time across the journey to help optimize fleet efficiency.
- **Quality of Delivery Metrics:** Evaluates environmental compliance during transit to ensure high delivery standards.
- **Performance Benchmarking:** Compare trips and routes to identify trends, improve processes, and reduce risks.

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	LTE/ 4G/ Cat.1/ 2G Fall back
Coverage	Global Bands
Power Supply	USB Type C Port, Rechargeable 3500mAH
Battery back up	>60 days [sampling 10 mins and report interval 1hour]
Operating Temperature	-25°C to +60°C
Operating Humidity	10% to 90%
Enclosure	IP66 [Food Grade]
User Indication	1 LED
Ambient light sensor	380 nm to 700 nm Wavelength
Power Switch	Tracker Power ON / OFF
Location tracking accuracy	<10m GPS, <20m Wi-Fi, <500m LBS
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	115mm x 70mm x 21mm
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
TFEN56S664	4G/ Wi-Fi, Location, Temperature, Humidity, Pressure, Accelerometer, Light Sensor
TFEN36S664	CAT.M1/ Wi-Fi, Location, Temperature, Humidity, Pressure, Accelerometer, Light Sensor
TFEN26S664	NB-IoT/ Wi-Fi, Location, Temperature, Humidity, Pressure, Accelerometer, Light Sensor

Please visit for more information

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