



Frigga® V5 Series V5(5)-Pro-(Li) Real-time Monitor (Multi-use)



Frigga®V5-(5)-Pro-(Li) is a new technological innovation of Frigga. The product is able to monitor ultra-low temperature, with probe temperature range -200°C to +100°C. In addition, it offers revolutionary location experience, with accuracy range $\pm 10\text{m}$, providing customers hyper-accurate location during shipments transit.

With Frigga®V5-(5)-Pro-(Li), clients will get full picture of shipment conditions, including dual temperature, light, shock, acceleration, tilt, motion status, location and receive immediate alarms in real-time if things go wrong, enabling timely corrective actions to reduce losses.

Intergrating self-developed Frigga® Track APP and Frigga® IoT Cloud Platform, clients can easily check and get all the shipment data anywhere at any time they want. ultra low

Key Features and Advantages

- Ultra-low temperature monitoring, probe temperature range -200°C to +100°C
- 5-Modal positioning technology, includes Satellite/GPS (GPS, BeiDou, GLONASS), A-GNNS, self-developed mixed LBS, Wi-Fi Position, location accuracy $\pm 10\text{m}$
- 3-axis acceleration detection and analysis, with the range of 0-16G
- 8-level shock detection and analysis
- 3-axis tilt detection and analysis, Resolution 0.1°
- Motion status detection to inform if shipments remain at rest, or in motion state
- Real-time monitoring of dual temperature, light, shock, tilt, location, motion status
- Real-time alerts to receivers via Email, SMS, APP (Android and iOS)
- Dual system design: PDF report can be downloaded via USB port or remotely through the Frigga cloud platform
- Large-capacity local storage, keep recording and storing data in offline mode. Zero data loss.
- Support auto-flight mode.
- Digital display, easy to use.

Frigga cloud platform provides full real-time supply chain visibility. The platform supports global use, and provides following services throughout the process:

- Ultra-low temperature monitoring
- Hyper-accurate location
- Real-time dual temperature, light, shock, tilt and location
- Real-time notifications and alarms
- Long-term data storage
- Data analysis report
- Comply with GSP/FDA
- Available on mobile/PC
- Supports auto-flight mode



FRIGGA® V5-(5)-Pro-(Li) SPECIFICATIONS

Usage Type	Multi-Use
Monitor Information	Dual Temperature, Humidity, Light , Shock, Tilt, Location, Motion
Location Type	Satellite/GPS, A-GPS, self-developed mixed LBS, Wi-Fi
Location Accuracy	Satellite/GPS: 10 m, Wi-Fi Geolocation: 100 m, Cellular Triangulation: 500 m
Temperature Sensor	Internal Temperature Sensor (NIST Traceable)
Temperature Measurement Range	External : -200°C ~ +100°C (-328°F ~ 212°F) Internal : -30°C ~ +70°C (-22°F ~ 158°F)
Temperature Accuracy Range	±0.5°C (-20°C to +40°C); ±1°C for other range
Resolution (Temperature)	0.1°C
Humidity Range	5%-95%RH
Light Sensor Range	0~52,000 Lux, detect whether doors or cartons open
Tilt Resolution	0.1°
Memory Capacity	Max 28,800 readings
Cellular	Global LTE 4G/5G, fallback 2G network.
SIM Card	Internal Embedded (Global Data Roaming)
Shelf Time	12 Months
Use Time	<ul style="list-style-type: none">• 120 days (120 Min reporting interval)• 60 days (60 Min reporting interval)• 30 days (30 Min reporting interval)• 20 days (20 Min reporting interval)• 10 days (10 Min reporting interval)
Data Logging Interval	10 Min. (settable via platform)
Data Reporting Interval	10 Min. (10/20/30/60/120 Min settable via platform)
Environmental Rating	IP64
Cold Chain PDF Report	Get PDF report via USB2.0/ Frigga cloud platform/Frigga Track (Mobile App)
Dimensions/Weight	103 x 61.3 x 23 mm / 160 grams
Certifications	FCC, CE, RTCA/DO-160G, UN38.3, ROHS, WEEE, EN12830
Storage temperature range	-10°C to +55°C