

FreshMon

ENVIRONMENTAL SENSOR SYSTEM

Specification Sheet

24/7 Monitoring
Hot + Cold Temperature Tracking
Real-Time Alerts
Reduced Manual Checks
Improved Food Safety
Prevent Inventory Loss
Digital Temperature Records
Built for Multiple Industries



WHAT'S INSIDE YOUR KIT?

VTS01K01- Grocery Kit

The Grocery Kit includes one gateway, four temperature sensors (one with an external probe), and two temperature & humidity sensors. It is commonly used in grocery and convenience, CDC facilities, and community health centers.

- ✓ 1 x Android Gateway with display (VGW12W05-EC25-24G)
- ✓ Android Tablet Industrial Gateway — Includes power supply and mounting bracket
- ✓ 3 x Digital Temperature Sensor (VTS13W01)
- ✓ Industrial Digital Wireless Temperature Sensor (2.4GHz LoRa)
- ✓ 1 x Digital Temperature Sensor with Probe (VTS13W02)
- ✓ Industrial Digital Wireless External Probe Temperature Sensor (2.4GHz LoRa)
- ✓ 2 x Digital Humidity and Temperature Sensor (VTS13W04)
- ✓ Industrial Digital Temperature and Humidity Sensor (2.4GHz LoRa)

TS01K02- Restaurant Kit

The Restaurant Kit includes one gateway, five temperature sensors (two with probes, one for normal range and one for high temperature), and one temperature & humidity sensor. It is commonly used in restaurants, fresh food markets, and similar environments.

- ✓ 1 x Android Gateway with display (VGW12W05-EC25-24G)
- ✓ Android Tablet Industrial Gateway — Includes power supply and mounting bracket
- ✓ 3 x Digital Temperature Sensor (VTS13W01)
- ✓ Industrial Digital Wireless Temperature Sensor (2.4GHz LoRa)
- ✓ 1 x Digital Temperature Sensor with Probe (VTS13W02)
- ✓ Industrial Digital Wireless External Probe Temperature Sensor (2.4GHz LoRa)
- ✓ 1 x Digital Temperature Sensor with Probe (VTS13W03)
- ✓ Industrial Digital Wireless External Probe Temperature Sensor (2.4GHz LoRa)
- ✓ 1 x Digital Humidity and Temperature Sensor (VTS13W04)
- ✓ Industrial Digital Temperature and Humidity Sensor (2.4GHz LoRa)



☎ 604-588-6178

✉ info@v-mark.com

📍 #400-601 West Broadway,
Vancouver B.C.

🌐 www.freshmon.com



VGW12 Series Android Gateway



- Android 10 operating system
- 2.4GHz wireless communication coverage up to 200m under visual condition
- Support Ethernet / Wi-Fi / 4G communication
- NFC one-click configuration and sensor binding
- Support GPS positioning and trajectory tracking during transportation
- Audible alarm for abnormal temperature & network connectivity issues
- Auto save monitoring data for historical tracking
- Connect Bluetooth printer to print monitoring data
- Can be used as handheld terminal to manage temperature sensors
- Can be configured according to different applications
- Built-in battery can support up to 6 hours of operation during a power outage

Android gateway with display	
Model	VGW12W05-EC25-24G
Communications	2.4G/Subig LoRa Proprietary network Zigbee Pro
Network types	Dual-Band Wi-Fi 4G (sim slot upon request) Ethernet
Network coverage distance	Outdoor: 200m (656 ft) Indoor: 100m (328 ft)
Display	10.1" Captive touch screen 1280x800 pixels

Android gateway without display	
Model	VGW12W06-EC25-24G
Communications	2.4G/Subig LoRa Proprietary network Zigbee Pro
Network types	Dual-Band Wi-Fi 4G (sim slot upon request) Ethernet
Network coverage distance	Outdoor: 200m Indoor: 100m
Display	N/A



Applications:

Cold Chain transportation
Refrigerators
Cold storage
Pharmacies
Walkin freezers
Walkin coolers
Supermarkets
Laboratories/medical
Restaurants

VTS13 Series Temperature / Temperature and Humidity Sensor



- 2.4Ghz LoRa Proprietary Network: wireless network, efficient and power-saving, more suitable for cold chain applications
- Low Power Consumption: Lithium thionyl chloride battery with 3 years' service life.
- IP68 Rated: Completely sealed waterproof design.
- Offline Data Storage: Ability to store up to 10,000 records if network connection fails
- Automatic Network Reconnection: When a network connection is restored, the device auto detects and reconnects
- Built-in LCD display: Displays real-time Measurement data, Battery status information and network connectivity
- NFC Tag : Internal Near Field Communication Tag for quick communication to a new Gateway

Applications:

Cold Chain transportation
Refrigerators
Cold storage
Pharmacies
Walkin freezers
Walkin coolers
Supermarkets
Laboratories/medical
Restaurants

General temperature sensor	
Model	VTS13W01
Operating temperature	-40F ~ 176F
Temperature measurement range	-30 °C ~ 85°C
Humidity range	/
Resolution	0.01°C
Measurement accuracy	±0.5°C
Network coverage distance	656ft (under visual conditions)
Way of communication	2.4GHz
Service life	3 years (5-minute intervals)

Temperature & humidity sensor	
Model	VTS13W04
Operating temperature	-40F ~ 176F
Temperature measurement range	-30 °C ~ 85°C
Humidity range	0 ~ 100%RH
Resolution	0.01°C/0.04%RH
Measurement accuracy	±0.5°C/±3%RH
Network coverage distance	656ft (under visual conditions)
Way of communication	2.4GHz
Service life	3 years (5-minute intervals)

VTS13P01 Temperature Sensor with Probe Connection



- Sub-2.4 GHz LoRa Proprietary Network: 433M/470/868/915M wireless network, efficient and power-saving, more suitable for cold chain applications
- Low Power Consumption: Lithium thionyl chloride battery with 2 years' service life.
- IP68 Rated: Completely sealed waterproof design.
- Offline Data Storage: Ability to store up to 10,000 records if network connection fails
- Automatic Network Reconnection: When a network connection is restored, the device auto detects and reconnects
- Built-in LCD display: Displays real-time measurement data, battery status information and Network connectivity

LoRa Temp sensor with Probe			
Model	VTS13P01		
Connection Type	VTS13W03	VTS13W02	VTS13W03
Probe	Wide range PT1000 Probe *Special order	TMPI17 Probe	High Temperature PT1000 Probe
Probe Model	VTS01P12	VTS01P13	VTS01P14
Operating temperature	-30°C~ 85°C	-30°C~ 85°C	-30°C~ 85°C
Temperature measurement range	-200°C ~ 200°C	-55°C~150°C	-50°C ~ 300°C
Humidity range	/	/	/
Resolution	0.01°C	0.01°C	0.01°C
Measurement accuracy	typical ±0.5°C,max±1.0°C	±0.1°C(maximum) from -20°C to +50°C ±0.15°C(maximum) from -40°C to +70°C ±0.2°C(maximum) from -40°C to +100°C ±0.25°C(maximum) from -55°C to +125°C ±0.3°C(maximum) from -55°C to +150°C	typical ±0.5°C,max±1.0°C
Network coverage distance (Visual)	outdoor:200m indoor:30m ~ 50m	outdoor:200m indoor:30m ~ 50m	outdoor:200m indoor:30m ~ 50m
Way of communication	LoRa(2.4GHz)	LoRa(2.4GHz)	LoRa(2.4GHz)

Applications:

Cold Chain transportation
Refrigerators
Cold storage
Pharmacies
Walkin freezers
Walkin coolers
Supermarkets
Laboratories/medical
Restaurants



Find out more!

