TemperatureWise for IT and procurement

Wireless temperature and humidity monitoring: network, security, integration and price

Renergy Technologies
renergytech.com/temperaturewise

TemperatureWise reads every fridge, freezer, walk-in and room every 5 or 15 minutes, keeps the record indefinitely, and escalates alerts by email, text and phone call until someone answers. It can stay entirely off your network.

OFF YOUR NETWORK
LoRaWAN radio to one gateway per site. With the cellular package ($125 once, $50 a year) nothing joins your network.

ENCRYPTED END TO END
Diffie-Hellman key exchange with AES-128 CBC. A silent sensor or gateway raises an alert.

INTO YOUR SYSTEMS
BACnet points for a BMS or BAS; alerts by API or webhook, or by email into ticketing.

QUESTION	TEMPERATUREWISE
Sensor radio, and does it need our Wi-Fi?	LoRaWAN, 902 to 928 MHz, to one gateway per site. No Wi-Fi inside the cold rooms. A Bluetooth tier suits small kitchens with the units close together
Encryption	Diffie-Hellman key exchange with AES-128 CBC, end to end
Does anything join our network?	Not with the cellular package. Otherwise the gateway uses your Wi-Fi or Ethernet
Reading interval and record	Every 15 minutes on the LoRa sensor, every 5 on the Bluetooth sensor. Kept indefinitely, with staff's corrective actions
Measurements and range	Temperature and humidity in one sensor. Freezer version -40°F to 131°F (-40°C to 55°C), ±0.3°C (±0.54°F) and ±2% RH at 77°F (25°C)
Alerts and escalation	Email to any number of people; SMS and phone calls to up to 3 people per sensor, escalating until someone answers. A silent sensor or gateway raises an alert
Integration	BACnet points for a BMS or BAS; alerts by API or webhook, or by email into ticketing
Data export	Your readings export as a spreadsheet file. Your history from another system is imported free
Power cut	Sensors on their own batteries; a backup mini-inverter for the gateway with the cellular package
Battery life	LoRa sensor 5 to 8 years in a deep freezer, 4 years guaranteed; Bluetooth sensor about 2 years
Calibration	NIST-traceable calibration certificates, quoted on request
Installation	Planned from your floor plan; no electrician and nothing drilled. A mid-sized restaurant takes 30 to 60 minutes
Pricing	Published: $250 per sensor per year; sensors $25 or $200; one gateway or hub per site at $100 to $450. Multi-site deployments quoted
Security questionnaire, hosting and certifications	Ask us, and we answer your questionnaire in writing

Specifications and prices: price list of 1 September 2026. Questionnaires answered in writing on request.

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