Application Note // Refrigeration Monitoring with EpiSensor

Probe Temperature Sensor
Battery powered (up to 10 years battery life) with one or two channels, various probes types available

Temperature (TES-2X)

Node Profiles
Configure Modbus communications with 1-click

Modbus (ZMB-3X)

Accurate to +/- 0.2°C
Lab-grade sensor accuracy with optional UKAS certificates

Temperature

Data Logging
Store up to 70,000 data points (2 years @ 15 min intervals) at the edge

Modbus
RS-485/Modbus for full bi-directional communications

Refrigeration Controller
Wide range of models supported from various manufacturers.

IP67 (NEMA4) Enclosure
Water and dust-proof polycarbonate enclosures as standard

EpiSensor Gateway (NGR-30-5)
Based on Dell Edge Gateway 3002

Expand Easily
Add any other EpiSensor nodes for monitoring Door Status, Humidity, Electricity, Pulse, 4-20mA, etc.

Calibration
Full field calibration capability with offsets stored on the node

Simplified
Easy to set up and use

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Full field calibration capability with offsets stored on the node

Data Logging
Store up to 70,000 data points (2 years @ 15 min intervals) at the edge

Live Neutral
Supply Voltage: 65 - 265 VAC

Fused disconnect / circuit breaker

Scalable
Connect up to 100 nodes to each wireless mesh network

IP67 (NEMA4) Enclosure
Water and dust-proof polycarbonate enclosures as standard

Remote Access
Remote monitoring and control from anywhere

Modbus
RS-485/Modbus for full bi-directional communications

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Based on Dell Edge Gateway 3002

Expands Easily
Add any other EpiSensor nodes for monitoring Door Status, Humidity, Electricity, Pulse, 4-20mA, etc.

Fully Secure
Security from 'sensor to server' with ZigBee AES 128-bit encrypted communications

Lab-grade sensor accuracy with optional UKAS certificates

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