



R E F R I G E R A T I O N

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All Type Refrigeration is introducing a new product which you help your business regarding temperature monitoring and real time viewing. This temperature Monitoring system provides a range of monitoring solutions for a wide variety of applications.

Wireless monitoring systems allow for a semi-permanent installation of data loggers to continuously monitor and record the temperature conditions in your storage / processing facility. High Temp Alarms and alerts can be configured to be sent instantaneously by email and temperature conditions which can be viewed and notified in near real time through the freely available mobile app.

They also keep monitoring conditions during power off conditions to keep monitoring your products. All Graphs can be printed or downloaded for all your HACCP requirements.

The wireless thermocouple logger allows you to connect one thermocouple probe to monitor external (product) temperature conditions. You can connect any k-type thermocouple available on the market with the yellow plug (indicates it is k-type) Omega type connector. Our all stainless-steel probe (range is -270 to 1372 degrees celsius) can be purchased together and passed through the cable gland without disassembly. Once probe has been correctly installed through the gland, the logger and probe combination is completely waterproof, rated to IP68. Depending on the type of thermocouple connected, this logger is perfect for monitoring and logging temperature of dishwashers, ovens, Cool rooms & Freezer rooms, extreme low temperature freezers, etc.

Wireless thermocouple logger



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You can connect any k-type thermocouple available on the market with the yellow plug (indicates it is k-type) Omega type connector. Some probe may require you to disassemble/reassemble the connector to pass through the cable gland (accepts up to 8mm diameter cable) to achieve water tight seal. Our all stainless-steel probe (rated 0°C- 400°C) can be purchased together and passed through the cable gland without disassembly.

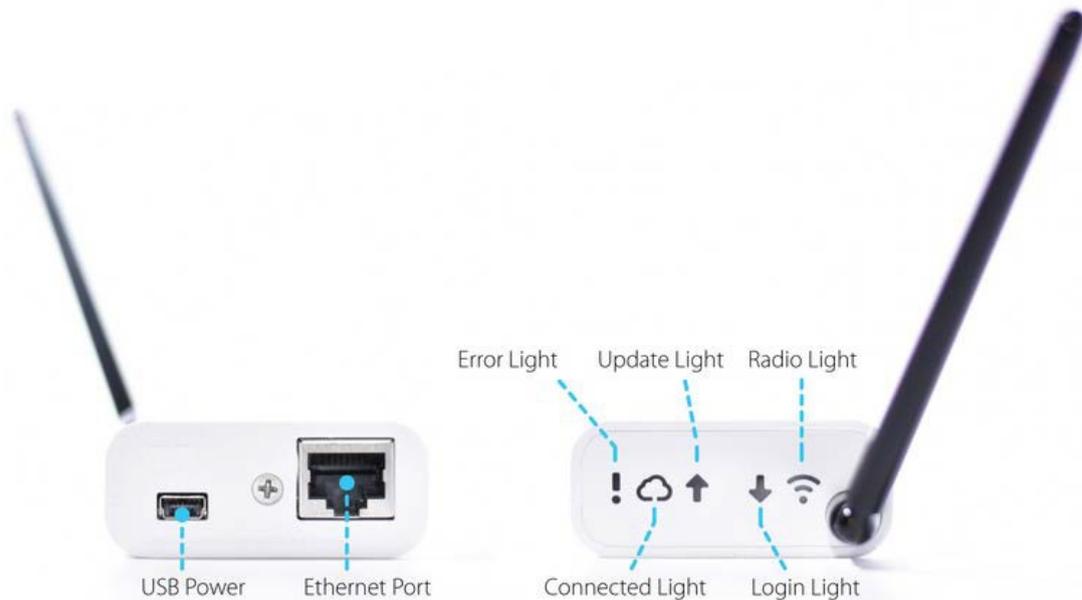
Once probe has been correctly installed through the gland, the logger and probe combination is completely waterproof, rated to IP68.

Depending on the type of thermocouple connected, this logger is perfect for monitoring and logging temperature of dishwashers, ovens, BBQ pit, grills, extreme low temperature freezers, etc.

The wireless logger requires one wireless receiver for data communication.

Battery Type	1/2 AA, 3.6V x1
Battery Life	5 years (typical at 10 minute logging interval)
Range	210m line of sight, 1.5m from ground, default setting.
Memory	8192 data points
Thermocouple Temperature Range	-270°C to 1372°C (completely dependent on thermocouple)
Thermocouple Temperature Accuracy	Highly accurate 16-bit ADC with +/-0.5°C error cold junction compensation sensor
Thermocouple probe dimensions	1m stainless steel cable, 4mm stainless steel probe
Logger Size and weight	Length (without probe): 120 mm Diameter: 36 mm Weight: 60~63 g depending on probe option

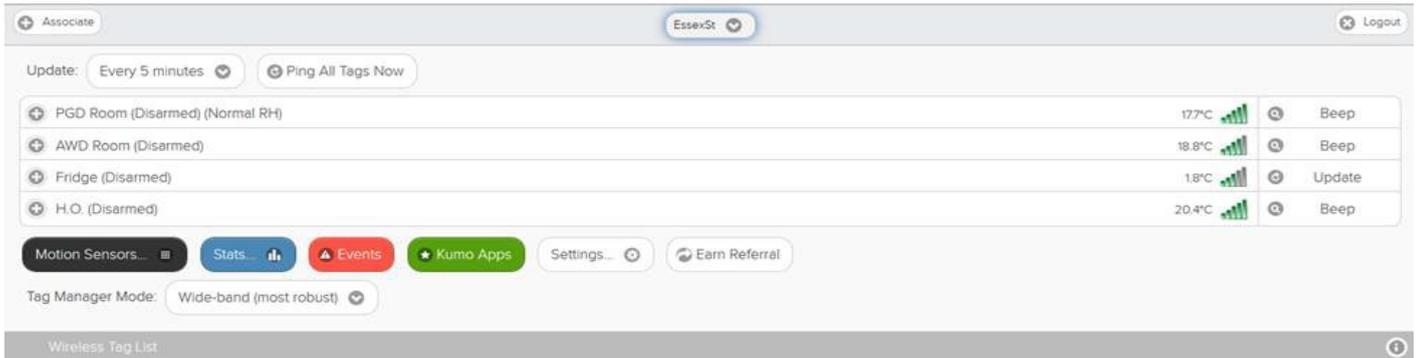
Wireless Receiver



Size and weight	Height: 22 mm Width: 55 mm Depth: 48 mm Weight: 55 g w/o AC adapter
Connects	Up to 40 individual loggers
Range	210m line of sight, 1.5m from ground, default setting.
Indicator lights	<ul style="list-style-type: none"> ○ Error light. Flashes when trying to configure itself to connect to the Internet (when acquiring IP address through DHCP). Rapidly flashes when trying to connect to web service.

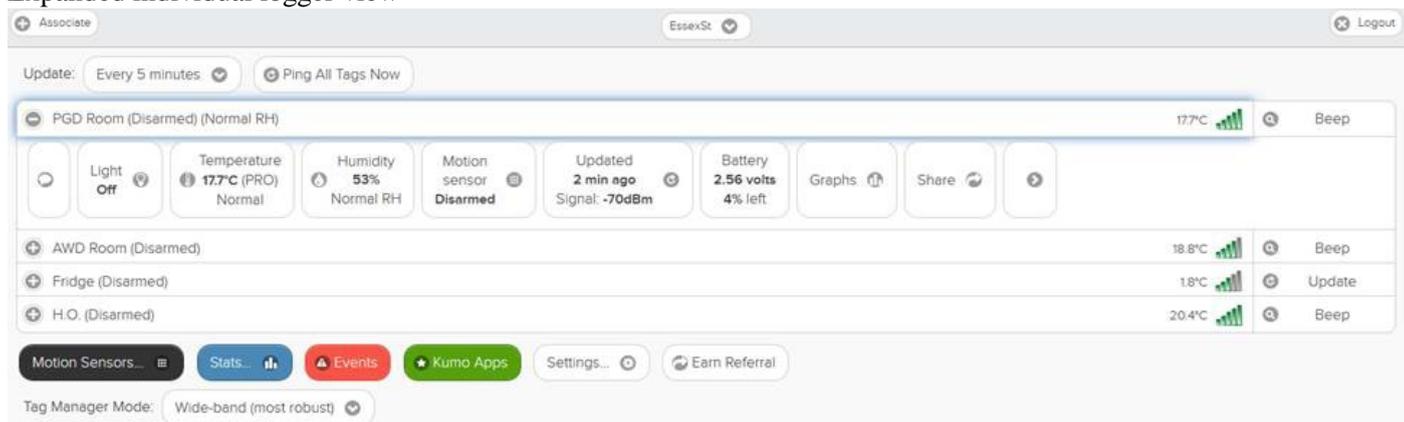
	 Connected light. Lights up when connected to the cloud based web service.
	 Update light. Flashes when forwarding a Wireless Sensor Tag reading to the web service.
	 Login light. Lights up when connection is temporarily interrupted (when trying to re-connect to the web service)
	 Radio light. Gradually ramps up and down when radio is ready to receive sensor tag readings. Becomes solid when radio is transmitting a command to Wireless sensor tags.
Ethernet port	10Base-T Requires DHCP server (Most routers/modems typically support DHCP) Firewall must allow outgoing HTTP (port 80) and port 6667 connection
AC adapter	100V~240V input 50/60Hz 5V output 300mA max current
User interface	Email, Twitter, Push Notifications
Bandwidth requirements	660 byte upload (TX) per event (typical) 401 byte download (RX) per event (typical) "event" refers to motion events and each logged temperature data point (occurs at your configured auto- update interval) 601 byte upload (TX) and 402 byte download (RX) per tag manager ping (once every 5 minutes)

Web interface examples



The screenshot shows the main web interface for a sensor tag manager. At the top, there are navigation links for 'Associate', 'EssexSt', and 'Logout'. Below this, there are controls for 'Update: Every 5 minutes' and a 'Ping All Tags Now' button. A list of sensor tags is displayed, including 'PGD Room (Disarmed) (Normal RH)' at 17.7°C, 'AWD Room (Disarmed)' at 18.8°C, 'Fridge (Disarmed)' at 1.8°C, and 'H.O. (Disarmed)' at 20.4°C. Each tag entry includes a signal strength indicator and a 'Beep' button. Below the list, there are buttons for 'Motion Sensors...', 'Stats...', 'Events', 'Kumo Apps', 'Settings...', and 'Earn Referral'. At the bottom, the 'Tag Manager Mode' is set to 'Wide-band (most robust)'.

Expanded individual logger view



The screenshot shows the expanded individual logger view for the 'PGD Room (Disarmed) (Normal RH)' sensor tag. The top navigation and update controls are the same as in the main interface. The expanded view for the PGD Room tag shows detailed information: 'Light Off', 'Temperature 17.7°C (PRO) Normal', 'Humidity 53% Normal RH', 'Motion sensor Disarmed', 'Updated 2 min ago Signal: -70dBm', and 'Battery 2.56 volts 4% left'. There are also buttons for 'Graphs', 'Share', and a refresh icon. Below this, the other sensor tags are visible in a smaller font. The 'Tag Manager Mode' is still set to 'Wide-band (most robust)'.

Temperature and alert configuration

Temperature Sensor Options for AWD Room Save

Apply to All Tags

Units: °C °F

Monitor Temperature...

Temperature range:

Threshold window:

Check temperature every:

Notify too cold after consecutive readings | Notify too hot after consecutive readings

Temperature Notifications

Send email to...
Email addresses (separate by ; or comma):

Send Tweet

Send push notification
Push sound: Pause action effective for:

Use speech

Silent (no sound)

Notify too hot: Notify too cold: