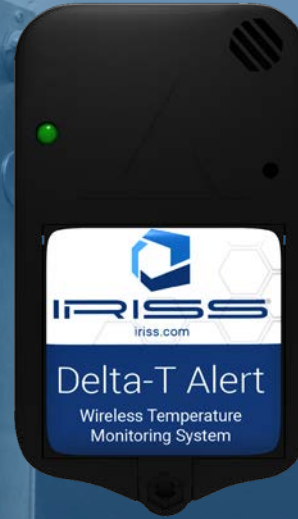# Delta-T Alert Sensor

A Simple Device with Staggering Results

Delta T Alert™ is a wireless, self-contained temperature-monitoring sensor that attaches to an electrical enclosure cover. The patented, Delta T Alert™ unit is simple to install and comprises two temperature sensors – one to monitor the electrical enclosure's interior temperatures and the second to monitor the ambient room temperature. The Delta T Alert™ sensors are then configured to collect data daily, at specific time intervals. The data is wirelessly transmitted for analysis and trending and warns the operator of abnormal temperature rise within their electrical enclosures before more serious problems occur preventing costly damage and system downtime.

Critical Asset Surveillance

The Delta T Alert™ Sensor wireless systems constantly monitor every critical electrical enclosure in a facility and complements existing electrical maintenance programs.

An Easy Way to Reduce Risks

The system warnings from the Delta T Alert™ allow maintenance technicians to be warned of potential issues causing elevated internal ambient temperatures.

24/7 Continuous Monitoring

The Delta T Alert™ monitors the delta between your internal and external enclosure temperatures and humidity.

Features

- 300ft Wireless Connectivity Line of Sight
- Tailored Scheduling
- Audible Alarm Notifications
- Battery Operated
- Custom Reporting
- Easy to Install
- Optional Environmental Housing
- Dual Temperature Sensors
- Proudly Made in the United States
- 12 Month Limited Warranty

Specifications

Model	DTSH-US	DTSH-EU	DTSH-AU
General Specifications			
Operating Temperature	-40°C (-40°F) to 85°C (185°F)		
Body Material	UL 94 5VA Nylon (switchgear-grade plastic); -40°C (-40°F)to 273°C (523°F)		
Back up Channel	Yes		
Real Time Clock	Yes		
Over The Air Updates	Yes		
Audio Alarm	Yes		
Compliances	FCC, IC	CE	ANZ
Dimension and Sensor Specifications			
Dimensions	69.9 x 114.3 x 48.3mm (2.75 x 4.5 x 1.9in)		
Weight	With Batteries 172g (0.38lb), Without Bateries 104g (0.23lb)		
Wireless Technology	Z-WaveTM 5th Gen		
RF Range	50 ft Optimum / Up to 300 ft Line of Sight		
Temperature Reading Accuracy	+/- 0.5°C (+/- 32.9°F)		
Humidity Reading Accuracy	+/- 1%		
Frequency	908.40 MHz, 916.00 MHz	868.40 MHz, 869.85 MHz	919.80 MHz, 921.40 MHz
Reporting			
Daily Scheduled Reports	Up to 8		
On Demand Status Report	Yes		
Critical Alarm Reports	Yes		
Inspection Capabilities and Applications			
Temperature	Yes		
Humidity	Yes		
Medium/High Voltage Applications	Yes		
Power			
Power Supply	3x AA batteries		
Operating Voltage	3x 1.5 V battery		
Battery Life	Variable		
Software			
Applications	Delta T Alert		
System Requirements	Required		Recommended
Operating System	Windows XP		Windows 7 or Higher
Processor Speed	500 MHz		1 GHz
RAM	1 GB		2 GB
Free Hard Disk Space	5 GB		10 GB
Display Resolution	800 x 600		800 x 600 or Higher
Other			
Warranty	12 Month Limited Warranty		

Delta-T Alert Gateway

A Simple Device with Staggering Results

Service
Z-WAVE
WIFI
WAN
POWER

iriss.com
Delta-T Alert
Gateway FCC-Series
Wireless Temperature
Monitoring System

Connect & Communicate

Gateways are paired to the Delta T software platform in a matter of seconds through an automatic software search feature. Once paired, Gateways can be likewise paired to individual Delta T Sensors via a "Learn" button on the Sensor and then programming their name, location and equipment type in the software. Sensor alarm thresholds can be left as default or customized by the user. Additional Gateways or Sensors can be added at any time in the future making the system fully expandable as your plant grows.

LAN Option Available

Delta T Gateways plug into your Local Area Network via a built-in ethernet port and communicate to the Delta T Software running on a PC on your network logging all data in real time. Alternately, the Delta T Software can be installed on a virtual PC on your server.

GSM Option Available

Coming in 2018, an optional GSM modem for Delta T Gateway will be available. With the GSM modem and low cost data plan, a Delta T monitoring system can be viewed via a web page from anywhere in the world allowing full remote access.

Features

300ft Wireless Connectivity Line of Sight

Easy to Install and Setup

12 Month Limited Warranty

Specifications

Model	DTG-US	DTG-EU	DTG-AU
General Specifications			
Processors and Memory		600MHz MIPS SoC NAND Flash: 128 MB Memory: DDR2 128 MB	
Connectors		1 DC Power Jack 1 RJ-45 Connector 1 External USB Connector	
LED and Button		LEDs: Power, WAN, WiFi, Z-Wave, Service Buttons: Reset, WPS, Sync	
Antenna		2 WiFi Internal Antennas 1 Z-Wave Internal Antenna	
Operating Temperature		0° - 40°C (32° - 104°F); Humidity: 10% - 80% RH (non-condensing)	
Storage Temperature		-20° - 70°C (-4° - 158°F); Humidity: 0% - 90% RH (non-condensing)	
Compliances	FCC, IC	CE	ANZ
Dimension and Sensor Specifications			
Dimensions		115.5 x 79.5 x 30.5mm (4.55 x 3.13 x 1.2in)	
Weight		99.8g (0.22lb)	
Ethernet		1 WAN Port (10/100Base-T)	
Wireless		WiFi: IEEE 802.11n Z-Wave: Built-in US/EU Z-Wave Module	
Maximum No. of Sensors Per Gateway		255	
RF Range		50 ft Optimum / Up to 300 ft Line of Sight	
Frequency	908.40 MHz, 916.00 MHz	868.40 MHz, 869.85 MHz	919.80 MHz, 921.40 MHz
Power			
Power Adapter		Input: 100-240VAC, 50-60Hz Output: 12VDC, 1A	
Accessories			
Accessories		Power Adapter (12V/1A, 100-240VAC)	
Software			
Applications		Delta T Alert	

System Requirements	Required	Recommended
Operating System	Windows XP	Windows 7 or Higher
Processor Speed	500 MHz	1 GHz
RAM	1 GB	2 GB
Free Hard Disk Space	5 GB	10 GB
Display Resolution	800 x 600	800 x 600 or Higher

Other	
Warranty	12 Month Limited Warranty

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