	Manufacturer **Cooper-Atkins USA**
	Model no **TEMPTRAK WIRELESS**
	Product Description **WIRELESS HACCP TEMPERATURE MONITORING SYSTEM**
	Origin **USA**

SPECIFICATIONS	
Function	To monitor temperature conditions of perishable food storage areas in Food Service Operations.
Form	Temperature Sensors installed to each refrigerated or frozen storage at return air point. • Walk in Chiller/ Freezers • Undercounter Chiller/ Upright Chiller/ Undercounter Freezer/ Upright Freezer. Other Sensors available: Food simulation probe, Temperature Humidity Sensors for preparation areas, Dishwash Sensors, Door Contact Sensors, and CO2 Sensors, and PDA for receiving, cleaning schedules, and training and inventory management, available if specified by the consultant. Enterprise software system Intelli-Ware which consolidates critical control data in one SQL database from (1) wireless sensors located in food storage / process areas. PC-based remote HACCP monitoring of temperature for refrigerated storage and serving areas. Individual non-invasive "Wireless" sensors (868MHz) to transmit real-time data via base stations and repeaters to an on-site PC networked using web-based visualization. Software (PC/Server not included).

Alarm alert icons presented through visualization software on background map layout. Alarm notification via local or remote PC and BMS (using relay switch) to alert user to risk and prompt, then record, appropriate corrective action. In addition, local or remote 'pop-up' messaging in real time or via e-mail and SMS.

Nuisance alarms are avoided by setting individual alarm profiles for each data sensor according to risk, including upper and lower alarm thresholds, alarm time delays for defrost recovery plus door opening/closing during normal use. When monitoring equipment, such as serving counters, alarms can be automatically immobilized during set time periods.

Escalation & Notification Profiles can be bespoke for each data sensor according to risk.

Multiple user access managed through individual user names and passwords. Automatic data backup via software to CD or Server.

System software generates paperless or printer friendly reports for due diligence and traceability compliance. For each sensor and location, logged data can be displayed in tabular or graphical formats. For server based systems, information can be viewed on any PC on the network accessible via ID and password.

Reports to include:
- Current data in chosen format
- Daily history at 1 or 12 hourly intervals in a concise tabulated format
- Daily summary for any sensor.
- Periodical Quality Assurance (weekly/monthly)
- Temperature/ Humidity Graphs
- Alerts / events, showing the period of any alarm or other occurrence and the extent of any threshold deviation and correction action taken and by whom.
- Daily contact sensor report, door open periods and other relevant data (if door open contacts specified)
- Security/ audit report
- Configuration changes.

Alarm Alert Options

TempTrak RF software allows the user to configure alarm management functions and notification controls including the following alert notifications.
- LED Message display board
- Emails
- Pop-up Notifications

SPECIFICATIONS	
Construction	All temperature and humidity sensors to be able to withstand -30 to +93degC as well as moisture.
Engineering/ MEP ratings.	HTML (web-based) software to be installed onto local PC or Networked Server, connected to an RF base station with a suitable number of repeater modules or via LAN connectors (server based system only). Data points to be supplied by client (server based system only). Data transmission by RF transmitters (868Mhz) via repeaters to base station connected to PC or clients LAN.
Safety	NIST Certified
Special Requirement	PC/Server Location to be confirmed (PC/Server supplied by client): Data points to be supplied by client as per MGK Drawings provided to consultant.

Server Hardware	Server Software
Intel/AMD Processor 2.0+ GHz (Core Duo, Quad Core, Xeon or similar) (Athlon II, X2 Dual-Core, Phenom or similar)	Windows Server 2003 (SP2) Windows Server 2008 Standard 5 User (All operating systems 32 bit or 64 bit)
4GB RAM	
2 x 160GB Hard Drives • Raid 1 or Raid 2 • ATA-100/SATA 7200 RPM • (SCSI 10k/15k RPM)	
Network Card 10/100/1000 MB	Microsoft SQL Server 2005 Express 32 bit or Microsoft SQL Server 2005 / 2008 32 bit or 64 bit • Std Edition • 1 Processor License
Serial Port (Or IOGear USB-Serial Adapter)	Microsoft Internet Explorer 6.0 (or higher)
56k V.90 Modem (Required for digital paging) IVR Modem (Required for voice notification, requires 32 bit XP SP2 or 32 bit Server 2003) SMS Modem (Required for SMS text messages)	Internet Information Services (IIS)
DVD/RW Drive	Java
USB Port	Microsoft XML Microsoft ActiveX
	TempTrak Collector Service Intelli-Ware Notification Service Intelli-Ware Voice Notification Service
	Microsoft Excel (Required for exporting data to Excel)

	Installation of software
	During installation MGK will install monitoring software to the designated computer. Each temperature monitoring location will be set up with descriptions, temperature limits, and alarm delays to your specification. A background layout plan will be constructed and installed if required.
	Commissioning and Handover
	At handover, training will be given to a group or individual member of your nominated staff. Operating manuals will be provided. Operating manuals will be provided. 3 Years Warranty on Hardware is included within the System. Annual Maintenance Contract after first year of operations for remote or Technicians visits, re-training of staff and software upgrades.