ISO 9001-2008

New Product Catalog

Addendum 2013

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Marathon Products, Inc.

S ince 1991, Marathon Products has been designing, manu-facturing and distributing temperature recording data collectors for monitoring the cold chain. Our growth is due to our commitment to customer service and to continuous product improvement.

Today, our customers are Fortune 500 companies including governmental laboratories, research organizations, pharmaceutical and drug discovery companies, hospitals, blood banks, IVF clinics, chemical manufacturers, the aerospace and semiconductor industries, the transportation industry and many others where obtaining accurate and reliable time-temperature information is critical for validating product and material safety.

Marathon Products' state-of-the-art technology delivers reliable data logging solutions for applications from cryogenics to high temperatures.

Jon Nakagawa
President, CPA, CEO

Quality Management System: ISO 9001-2008

MARATHON PRODUCTS

EDL-WiFi™

WiFi Temperature Facilities Management for Hospitals, Laboratories and Research Organizations.

Use our WiFi-enabled EDL-WiFi data loggers to enjoy real-time temperature data collection and monitoring at anytime, from anywhere in the world over a local network or via an internet connection. Leverage your existing WiFi network with the built-in WiFi b/g/n connectivity to avoid expensive installation costs for managing temperature data. Marathon's Ethernet enabled loggers will allow you to wirelessly monitor multiple floors, buildings, rooms and locations simultaneously. Secure wireless encryption with WPA-PSK and WPA2-PSK. WiFi radio approval with FCC (USA), IC (Canada), CE/ETSI (Europe), C-TICK (Australia) and Telec (Japan).

Our advanced software can be programmed by the user to detect high and low temperature excursions, or power outages, and trigger audible and visible alarms as well as send alert notifications via cell phone and/or e-mail for facilities management control.

Marathon's 21 CFR: Part 11 compliant software, with secure supervisory controls, will allow database creations for products, part numbers, dates, locations, identification numbers, statistical analysis, and more.

BENEFITS:

- Alarm notifications via email, phone, pager or SMS
- WiFi b/g/n Connectivity
- Multiple Alarm options: local and remote
- Interchangeable sensors: -80 C to 72 C
- Precision temperature data capture
- Powerful software with real-time display
- Audit Trails for Regulatory Control
- 8K to 64K EEPROM memory options
- Power outage detection capabilities

In the lab, our NIST-calibrated and traceable thermistor probes have been tested sterile and can be used in incubators. In hospitals, clinics, pharmacies and blood banks, the EDL-WiFi is perfect for quality assurance and quality control, monitoring low temperature freezers, blood storage, vaccines and biologics via state-of-the-art high-performance temperature sensors and data logging.
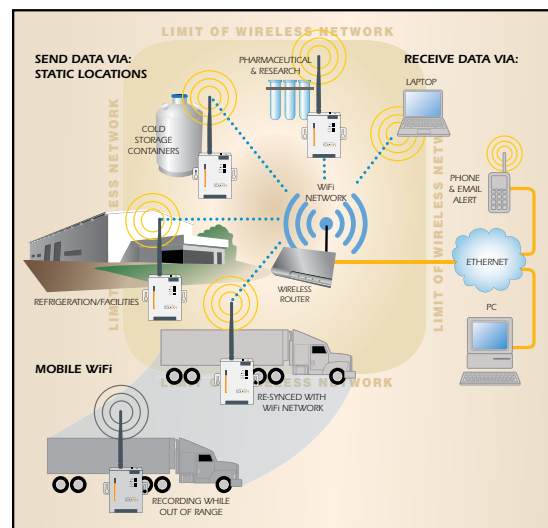
EDL-WiFi SPECIFICATIONS

Temperature Range:	-40 C to 72 C / -40 F to 160 F -80 C to 30 C / -112 F to 70 F
Temperature Accuracy:	0.2 C at center, 0.5 C at extremes
Measurement Intervals:	2 second increments to months
No. of measurements:	8,000 to 64,000 EEPROM memory options
Start:	Remote start via software or push button
Alarm programming:	High and low alarm limits set by temperature and time
Alarm Modes:	Continuous or cumulative with LED Indicators:
Alarm Notifications:	Alert notification to email, phone, pager and SMS
Power Source:	Requires 110 AC power. User replaceable internal 3V lithium battery for data logging function. Battery backup–Failsafe prevents data loss.
Accessories:	• Optional flat cable probes • External audible alarm boxes • Phone Dialer

Physical Properties

Width	3.11 in. / 7.9 cm
Height	3.60 in. / 9.14 cm
Depth	1.11 in. / 2.8. cm
Weight:	8 oz. / 230 grams

CERTIFIED SAFE STORAGE

For FDA, GxP, JCAHO, CAP, HFAP, CARF, CHAP, ACHC, URAC, HQAA, AABB and Regulatory Compliance

MARATHON PRODUCTS

The EDL-Net™

Remote temperature data logging via Ethernet connectivity for Hospitals, Laboratories and Research Organizations, with Alarm Notification via cell phone or e-mail.

Use our Ethernet enabled EDL-Net data loggers to enjoy real-time temperature data collection and monitoring at anytime, from anywhere in the world over a local network or via an internet connection. Leverage your existing LAN or WiFi network for monitorng temperature data. Marathon's Ethernet enabled loggers will allow you to monitor multiple floors, rooms, buildings, and locations simultaneously.
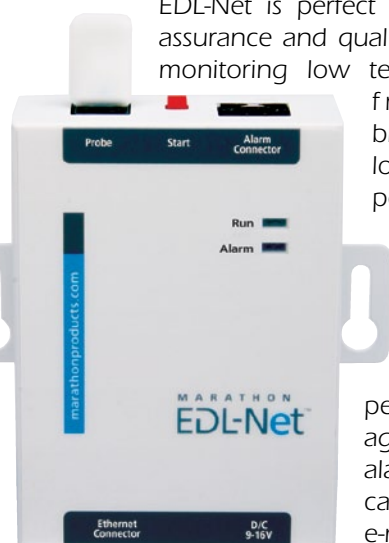
In the lab, our NIST-calibrated and traceable thermistor probes have been tested sterile and can be used in incubators. In hospitals, clinics, pharmacies and blood banks, the EDL-Net is perfect for quality assurance and quality control, monitoring low temperature freezers, blood storage, vaccines and biologics via state-of-the-art high-performance temperature sensors and data logging.

Our advanced MDAS-Pro software can be programmed by the user to detect high and low temperature excursions, power outages, trigger audible and visible alarms as well as send alert notifications via cell phone and/or e-mail. Marathon's 21 CFR: Part 11 compliant software, with secure supervisory controls, will allow database creations for products, part numbers, dates, locations, identification numbers, statistical analysis, and more.
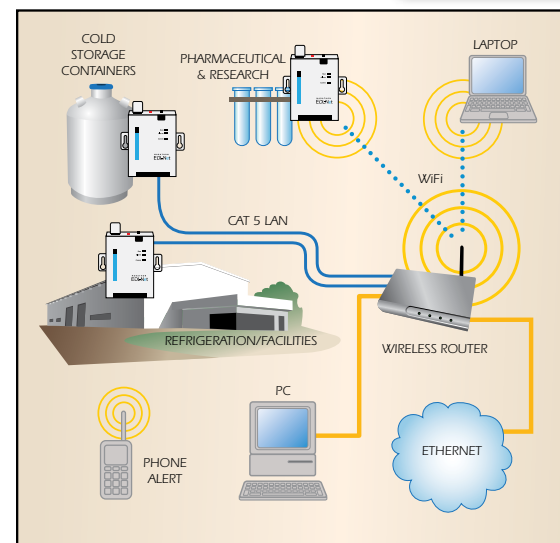
The EDL-Net quickly and reliably collects temperature data, documents standards compliance, and provides proof for certification.

Please visit our web site at http://www.marathonproducts.com for more information.

BENEFITS:

- Alarm notifications via e-mail, phone, pager or SMS
- Multiple Alarm options: local and remote
- Interchangeable sensors: -80°C to 72°C
- Precision temperature data capture
- Powerful software with real time display
- Audit Trails for Regulatory Control
- 8K to 64K EEPROM memory options
- Power outage detection capabilities

EDL-Net SPECIFICATIONS

Temperature Range:	-40°C to 72°C / -40°F to 160°F -80°C to 30°C / -112°F to 70°F
Temperature Accuracy:	0.2°C at center, 0.5°C at extremes
Measurement Intervals:	2 second increments to months
No. of Measurements:	8,000 to 64,000 EEPROM memory options
Start:	Remote start via software or push button
Alarm Programming:	High and low alarm limits set by temperature and time
Alarm Modes:	Continuous or cumulative with LED Indicators:
Alarm Notifications:	Alert notification to e-mail, phone, pager and SMS
Alarm Reset:	Push button—manually or by software
Power Source:	User replaceable internal 3V lithium battery for data logging function. Battery backup—Failsafe prevents data loss.
Accessories:	• Optional flat cable probes • External audible alarm boxes • Phone Dialer

Physical Properties

Width	3.11 in. / 7.9 cm
Height	3.60 in. / 9.14 cm
Depth	1.11 in. / 2.8. cm
Weight:	8 oz. / 230 grams

For FDA, GxP, JCAHO, CAP, HFAP, CARF, CHAP, ACHC, URAC, HQAA, AABB and Regulatory Compliance

CERTIFIED
SAFE STORAGE

MARATHON PRODUCTS
The EDL-8 WiFi™

New Wireless and Network enabled 8 Channel Data Logger

The most accurate multi-sensor graphical data logger on the market. The EDL-8 WiFi has eight channels with three types of NIST-traceable interchangeable sensors. Each sensor is calibrated for both temperature and humidity by the sensor manufacturer.

- Temperature Sensor: RTD -200°C to +380°C, accuracy +/– 0.2°C

- Relative Humidity Sensor: Capacitive humidity readings 0% RH to 100% RH.

- CO2 Sensor: Designed to measure percentage of carbon dioxide up to 30%. It is useful for biological or scientific applications where high levels of CO2 must be maintained in an enclosed apparatus.
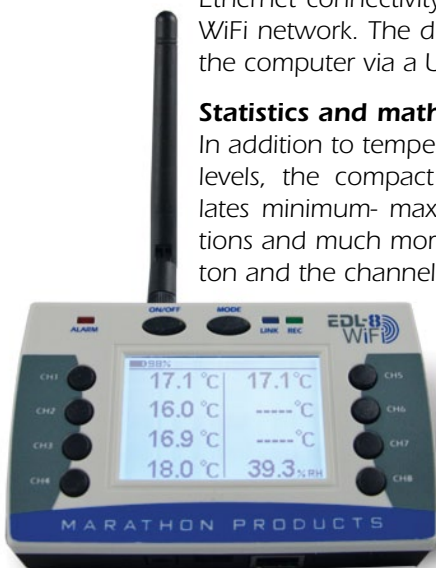
Ethernet and WiFi capability
EDL-8 WiFi can be monitored remotely via Ethernet connectivity or via a WiFi network. The device also connects directly to the computer via a USB port.

Statistics and mathematical functions
In addition to temperature, humidity, pH and CO2 levels, the compact state-of-the-art device calculates minimum- maximum-time over alarm conditions and much more. Simply push the mode button and the channel selection.

Alarms and battery backup
Alarm settings can be set up quickly in the MaxiThermal WiFi software based on temperature, RH, and level of CO2. Alarms can be both visual (flashing display) and

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HIGHLIGHTS:
- Temperature Sensor: RTD -200°C to +380°C
- Relative Humidity Sensor: 0% to 100% RH
- CO2 & pH Sensors
- 64k memory storage per channel
- Precision data capture
- Audible built-in buzzer
- Alert notifications by email, phone, pager or SMS
- Battery backup
- Custom long-range probes up to 30 meters

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audible (beeping). Likewise, alarm settings can be set up to trigger email notifications. In the event of a power outage, the internal lithium ion battery (when fully charged and when the backlight is not on) will continue to record data for approximately 24 hours.

Large, easy-to-read display
Now view data remotely for all your locations from your desk. The EDL-8 WiFi is the ideal instrument for documenting, controlling, and managing critical environmental conditions graphically, statistically and in real time. Up to sixteen different display set-ups can be stored and recalled at the touch of a singe button. You can easily modify this to get exactly what you want. View high/low data and all alarm conditions in real time from the Dashboard for all your remote locations.

EDL-8 WiFi SPECIFICATIONS

Microcontroller:	32 bit flash microcontroller cortex M3
Digital sensor options:	Temperature, Humidity, CO2, pH

Temperature Range: -200°C to +380°C / -328°F to +716°F
Temperature Accuracy: +/– 0.2°C at center
Temperature Resolution: 0.1°C / .18°F
Humidity: +/–2% to 70% RH
CO2: up to 30%
pH: 1.0 to 14.0

Memory:	64k per channel, 1MB flash memory for data storeage
Recording Rate (sec):	Set by user
Update Data Rate (records):	Set by user
Alarm Programming:	High and low alarm limits set by temperature and time
Alarm Modes:	Visual (flashing) and audible (beeping):
Alarm Notifications:	Alert notification to e-mail, phone, pager and SMS
Interface:	RJ9 interface for 5 RTD sensors, Mini USB-B 12C interface for 3 probes
Communication:	USB 2.0 with mini USB-B connector Ethernet IEEE 1588 with protected RJ-45 WiFi ethernet (optional)
Power Source:	AC/DC power jack Li-polymer 3.6V-2Ah battery for data logging function. Battery backup—Failsafe prevents data loss.
PC software:	MaxiThermal WiFi
Accessories:	Optional flat cable probes up to 30 meters.

Physical Properties

Operating range:	0°C to 50°C,
Storage range:	-20°C to +85°C
Display:	Graphic dot matrix LCD 128x86 viewing area: 60 x 40 mm

Physical Properties

Width	4.9 in. / 12.5 cm
Height	2.87 in. / 7.29 cm
Depth	1.16 in. / 2.95. cm
Weight	8 oz. / 230 grams

For FDA, GxP, JCAHO, CAP, HFAP, CARF, CHAP, ACHC, URAC, HQAA, AABB and Regulatory Compliance

MARATHON PRODUCTS

The EDL-RTD2™

Digital Dual Sensor Thermal Temperature Data Logger for industrial and remote monitoring of refrigerated, ambient and high temperature applications

The EDL-RTD2 is a reliable and cost effective digital temperature recorder for all industrial and commercial applications requiring monitoring a wide temperature range. The EDL-RTD2 has one sensor for ambient range temperatures inside the case, and one external RTD stainless-steel probe that monitors temperatures from -29°C (-20°F) up to +380°C (+716°F) for applications such as warmers, incubators and ovens.

These high-precision laboratory-grade products will operate up to 3 years without a battery change. The LCD display provides real time viewing of ambient and remote temperature prior to downloading to a computer.

The internal software is user programmable and provides the following features: start time delay, sampling intervals, high and low alarm window values, recording status, and measurement data.

All our data loggers have the ability to program alarm limits. Should the temperature reach levels outside these limits, the onboard red LED will light until reset by the user. Operation is as easy as pressing the START button on the recocrder.

In conjunction with our Maxithermal software, you can document your high-temperature uses for your GxP and FDA regulated environment. To download recorded information, simply plug the unit into a PC using a standard USB connector. The USB cable and PC software are available as accessory items.

Serialization: the recorder is programmed at the factory with a unique serial number for positive tracking.

Waterproof enclosure: the product package is hermetically sealed to an IP66 rating.

Calibration: EDL-RTD2 is a laboratory grade multi-use logger with internal NTC and external RTD probe for precision temperature capture. Multi point calibration certificates can be provided for additional costs.

Temperature Range

Internal Sensor:
    -29°C to 72°C
External probe:
    -29°C to 380°C

Temperature Accuracy

(NIST traceable)
±0.2°C at center of range
±0.5°C at extremes

Memory

64k

Measurement intervals

2 seconds to months

Number of measurements

approx. 64,000 samples

Optional bracket

EDL-RTD2 SPECIFICATIONS

Internal Sensor:	Wired chip in glass thermistor
Operating Range	-29°C to +72°C / -20°F to +161°F
Accuracy: (NIST traceable) ±0.2°C at 2° to 10°C / ±0.5°C at extremes / 0.36°F at 32° to 50°F / .9°F at extremes	
External Probe:	RTD Stainless Steel Tip =12 cm / 4.72 in.; Flexible Teflon-coated Cable = 51 cm / 20 in.
Operating Range:	-29°C to +380°C / -20°F to +716°F
Accuracy: (NIST traceable) ±0.2°C at 0° to 30°C / ±1.0°C at extremes / 0.36°F at 32° to 86°F / .18°F at extremes	
Memory EEPROM, Storage:	64k memory,
No. of Measurements:	Approximately 64,000.
Measurement Intervals	Programmable from 2 secs per reading.
Examples:	4 days = 0 min. 06 sec. 7 days = 0 min. 10 sec. 16 days = 0 min. 22 sec. 30 days = 0 min. 40 sec. 60 days = 1 min. 20 sec. 90 days = 1 min. 59 sec. 365 days = 8 min. 02 sec.
Computer Interface:	USB port
Power Source:	One CR2477 Lithium coin cell battery with a 3 year operating life and a 5 year shelf life.
Size:	Length 9.0 cm (3.5 in.) Width 5.0 cm (2 in.) Depth 2.8 cm (1.1 in.)
Weight:	95 grams / 3.3 oz.
CE Certified	Yes
Waterproof	Yes
PC Software	MaxiThermal Software 21CFR Part 11 Compliant Software
Software Highlights:	Report Summary & Statistics File Manager Note Attachment Elapsed Time or Date/Time Recorded view Celsius or Fahrenheit display
Warranty	3 Months
Optional Accessories:	NIST Certificate + 1, 2 or 3 Point Calibration Available Mounting bracket

For FDA, GxP, JCAHO, CAP, HFAP, CARF, CHAP, ACHC, URAC, HQAA, AABB and Regulatory Compliance

MARATHON PRODUCTS

The EDL-LN2™

Digital Dual Sensor Thermal Temperature Data Logger for cryogenic industrial and remote monitoring applications.

The EDL-LN2 is a reliable and cost-effective digital temperature recorder for all industrial and commercial applications. The EDL-LN2 has one sensor for ambient range temperatures inside the case, and one external RTD stainless-steel probe that monitors temperatures from -200°C (-328°F) up to +72°C (+161.6°F), ideal for monitoring all of your cryogenic stem cells and biologic materials.

These high-precision laboratory-grade products will operate up to 3 years without a battery change. The LCD display provides real time viewing of ambient and remote temperature prior to downloading to a computer.

The internal software is user programmable and provides the following features: start time delay, sampling intervals, high and low alarm window values, recording status, and measurement data.

All our data loggers have the ability to program alarm limits. Should the temperature reach levels outside these limits, the onboard red LED will light until reset by the user. Operation is as easy as pressing the START button on the recocrder.

In conjunction with our Maxithermal software, you can document your monitoring for your GxP and FDA regulated environment. To download recorded information, simply plug the unit into a PC using a standard USB connector. The USB cable and PC software are available as accessory items.

Serialization: the recorder is programmed at the factory with a unique serial number for positive tracking.

Waterproof enclosure: the product package is hermetically sealed to an IP66 rating.

Calibration: EDL-LN2 is a laboratory grade multi-use logger with internal NTC and external RTD probe for precision temperature capture. Multi point calibration certificates can be provided for additional costs.

Temperature Range

Internal Sensor:
    -29°C to 72°C
External probe:
    -200°C to 72°C

Temperature Accuracy

(NIST traceable)
±0.2°C at center of range
±0.5°C at extremes

Memory

64k

Measurement intervals

2 seconds to months

Number of measurements

approx. 64,000 samples

Optional bracket

EDL-LN2 SPECIFICATIONS

Internal Sensor:	Wired chip in glass thermistor
Operating Range	-29°C to +72°C / -20°F to +161°F
Accuracy: (NIST traceable) ±0.2°C at 2° to 10°C / ±0.5°C at extremes / 0.36°F at 32° to 50°F / .9°F at extremes	
External Probe:	RTD Stainless Steel Tip =12 cm / 4.72 in.; Flexible Teflon-coated Cable = 51 cm / 20 in.
Operating Range:	-200°C to +72°C / -328°F to +161.6°F
Accuracy: (NIST traceable) ±0.2°C at 0° to 30°C / ±1.0°C at extremes / 0.36°F at 32° to 86°F / .18°F at extremes	
Memory EEPROM, Storage:	64k memory,
No. of Measurements:	Approximately 64,000.
Measurement Intervals	Programmable from 2 secs per reading.
Examples:	4 days = 0 min. 06 sec.
	7 days = 0 min. 10 sec.
	16 days = 0 min. 22 sec.
	30 days = 0 min. 40 sec.
	60 days = 1 min. 20 sec.
	90 days = 1 min. 59 sec.
	365 days = 8 min. 02 sec.
Computer Interface:	USB port
Power Source:	One CR2477 Lithium coin cell battery with a 3 year operating life and a 5 year shelf life.
Size:	Length Width Depth 9.0 cm (3.5 in.) 5.0 cm (2 in.) 2.8 cm (1.1 in.)
Weight:	95 grams / 3.3 oz.
CE Certified	Yes
Waterproof	Yes
PC Software	MaxiThermal Software 21CFR Part 11 Compliant Software
Software Highlights:	Report Summary & Statistics File Manager Note Attachment Elapsed Time or Date/Time Recorded view Celsius or Fahrenheit display
Warranty	3 Months
Optional Accessories:	NIST Certificate + 1, 2 or 3 Point Calibration Available
	Mounting bracket

For FDA, GxP, JCAHO, CAP, HFAP, CARF, CHAP, ACHC, URAC, HQAA, AABB and Regulatory Compliance

MARATHON PRODUCTS

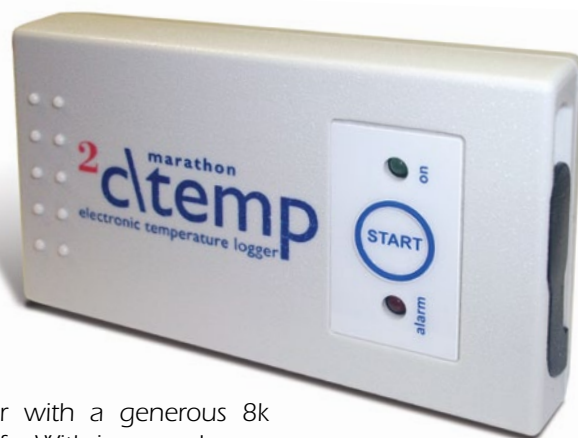# 2c\temp-USB™
Data Loggers

Waterproof Temperature Data logger with USB Connectivity!

The 2c\temp-USB multi-use data logger is a cost-effective solution for temperature monitoring of refrigerated vaccines, biological material, chemicals, pharmaceuticals and documenting the transportation of fruits and vegetables. Its convenient palm-sized design lets it fit into tight quarters.

It is a mid-range data logger with a generous 8k memory and a 3 year battery life. With increased accuracy over the 2c\temp and echo, this is an excellent general purpose data logger.

Functions include: The internal thermistor accurately records time and temperatures for user-selectable readings in Celsius or Fahrenheit. The internal software is user programmable and provides the following features: start time delay, sampling intervals, high and low alarm values, recording status, and measurement data.

Visual alarms: It features the ability to program alarm limits. Should the temperature reach levels outside these limits, the on-board red LED will light until reset by the user. Operation is as easy as pressing the START button on the recorder.

Temperature Range
-29° C to +72° C
-20° F to +160° F

Temperature Accuracy
(NIST traceable)
±0.2°C at zero degrees
±2.0°C at extremes

Measurement intervals
2 seconds to weeks

Memory EEPROM, Storage
8k memory,

Number of measurements
8k memory
(7680 data points)

Computer ready: MaxiThermal software is used to read the logger. It runs on Windows 2000, XP, Vista, & 7. To download recorded information, simply plug the unit into the standard USB port of your PC. The MaxiThermal software and USB cable are available as separate accessory items.

2c\temp-USB DATA LOGGER SPECIFICATIONS

Memory EEPROM, Storage:	8k
Temperature Range:	-29° C to +72° C / -20° F to +160° F
Temperature Accuracy:	0.2°C at 20°C, 0.5°C at extremes / 0.4°F at 68°F, 1.0°F at extremes
Temperature Resolution:	0.2°C / 0.4°F
Measurement Intervals:	Programmable from 2 seconds to weeks. Examples: 4 days = 0 min. 43 sec. 7 days = 1 min. 15 sec. 16 days = 2 min. 50 sec. 30 days = 5 min. 19 sec. 60 days = 10 min. 38 sec. 90 days = 15 min. 57 sec. 365 days = 1 hr. 4 min. 39 sec.
Temperature Sensor:	NIST traceable Precision Thermistor
High and Low Alarm Limits:	LED indicator alarm set by temperature and time
Internal Clock Accuracy:	Better than 2 minutes per month
Computer Interface:	Mini USB Connector
Internal Software Provides:	Start time, Interval, User description, Alarm values, Recording status, Measurement data, Software version, Serial number, Model type
Power Source:	Two 3.6 Volt Lithium Battery with a 3 year battery life and 5 year shelf life. Battery is rated at six months, if used continuously at -29C
Size:	Length 9.0 cm (3.5 in.) Width 5.0 cm (2 in.) Depth 2.0 cm (0.8 in.)
Weight:	106 g / 3.7 oz.)
Warranty:	12 months
CE Certified:	CE Marking File

For FDA, GxP, JCAHO, CAP, HFAP, CARF, CHAP, ACHC, URAC, HQAA, AABB and Regulatory Compliance

MARATHON PRODUCTS

c\temp-USB™
Data Logger

The Waterproof Single-use Solution with USB Connectivity.

c\temp-USB is the revolutionary single-use pre-programmed electronic temperature recorder developed by Marathon Products. It is specifically designed for measuring temperatures during the transportation of refrigerated vaccines, biological material, chemicals, pharmaceuticals, and documenting the transportation of fruits and vegetables.

Functions include: The internal thermistor accurately records time and temperatures for user selectable readings in Celsius or Fahrenheit. The larger format c\temp-USB has an extended battery life, is waterproof and can endure rough handling. The internal software records the following: time measurements, start time, intervals, end description for special instructions, alarm values, recording status, measurement data, software version, serial and tracking number, model type and after the fact report generation options.

Visual alarms: All our data loggers can be programmed with alarm limits. Should the temperature reach levels outside these limits, the onboard red LED will light until reset by the user. To start the recorder, simply press the START button!

Computer ready: MaxiThermal software is used to read the logger. It runs on Windows 2000, XP, Vista, & 7. To download recorded information, simply plug the unit into the standard USB port of your PC. The MaxiThermal software and USB cable are available as separate accessory items.

Temperature Range
-29°C to 72°C / -20°F to 160°F

Temperature Accuracy
±0.2°C (±0.4°F)

from 0° to 10° C

(30° to 50° F);

±0.5°C (±0.9°F)

at extremes

Measurement Intervals
Pre-programmed from 1 minute to hours depending on model type (duration)

Number of Measurements
8K memory (7680 data pts.)

c\temp-USB SPECIFICATIONS

Memory EEPROM, Storage:	8k
Temperature Range:	-29°C to 72°C / -20°F to 160°F
Temperature Accuracy:	±0.2°C at 0° to 10°C, ±0.5°C at extremes (±0.4°F at 32° to 50° F, ±0.9°F at extremes)
Measurement Intervals:	Pre-programmed from 1 minute to hours depending on model type (duration)
	4 days = 0 min. 43 sec.
	7 days = 1 min. 15 sec.
	16 days = 2 min. 50 sec.
	30 days = 5 min. 19 sec.
	60 days = 10 min. 38 sec.
	90 days = 15 min. 57 sec.
	365 days = 1 hr. 4 min. 39 sec.
Temperature Sensor:	NIST-traceable Precision Thermistor
Indicators:	Start/Stop and Alarm
Alarm Limits:	LED indicator alarm set by temperature and time.
Computer Interface:	mini USB connector
Internal Software Provides:	Times, Start time, Interval, User description, Alarm values, Recording status, Measurement data, Software version, Serial number, Model type.
Power Source:	Lithium Battery (2 Year Shelf Life)

Size:	Length	Width	Depth
	13.0 cm (5.1 in.)	6.8 cm (2.7 in.)	2.0 cm (0.8 in.)

Weight:	71 g (2.5 oz.)
Quantity:	Minimum 20 units

For FDA, GxP, JCAHO, CAP, HFAP, CARF, CHAP, ACHC, URAC, HQAA, AABB and Regulatory Compliance

SAFE SHIPPING CERTIFIED

MARATHON PRODUCTS

2C\TEMP-RH™
Data Loggers

Get Waterproof Temperature & Humidity with Digital Display and USB Connectivity.

The 2C\TEMP-RH multi-use data logger is a cost-effective solution for temperature monitoring of refrigerated vaccines, biological material, chemicals, pharmaceuticals and documenting the transportation of fruits and vegetables.

The 2C\TEMP-RH is our top-of-the-line data logger with dual 8k memory banks for temperature and humidity, 0.2°C midpoint temperature accuracy and resolution, and 3% midpoint humidity accuracy. This is a must have device if you work in a laboratory or metrology department.

Functions include: The convenient palm-sized design has a digital display that provides real-time viewing of all temperature and humidity information including min/max temperature and current humidity values. One quick look provides instant product acceptance or "quarantine" decisions. The internal thermistor accurately records time and temperatures for user-selectable readings in Celsius, or Fahrenheit. The internal software is user programmable and provides the following features: start time delay, sampling intervals, high and low alarm values, recording status, and measurement data.

Visual Alarms: All our data loggers have the ability to program alarm limits. Should the temperature reach levels outside these limits,

the onboard red LED will light until reset by the user.

Computer Ready: Marathon's easy-to-use MaxiThermal software is available for Microsoft Windows 2000, XP, Vista & 7. Simply plug the unit into a standard USB port on your PC. The MaxiThermal software and USB cable are available as separate accessory items.

Temperature Range
-29° C to +72° C
-20° F to +160° F

Temperature Accuracy
(NIST traceable)
±0.2°C from 0° to 10°C
±0.5°C at extremes

Memory EEPROM, Storage
2 banks of 8k memory
(7680 data points)

Humidity Range
0% to 100%

Humidity Accuracy
(NIST tracable)
±3% from 25% to 75%
±5% at extremes

2C\TEMP-RH DATA LOGGER SPECIFICATIONS

Memory EEPROM, Storage:	2 banks of 8k memory
Temperature Range:	-29° C to +72° C / -20° F to +160° F
Temperature Accuracy:	0.2°C from 0° to 10°C, 0.5°C at extremes / 0.4°F from 32° to 50°F, 0.9°F at extremes
Humidity Range:	0% to 100%
Humidity Accuracy:	±3% from 25% to 75%, ±5% at extremes
Temperature Resolution:	0.2°C / 0.4°F
Measurement Intervals:	Programmable from 2 seconds to months. Examples: 4 days = 0 min. 43 sec. 7 days = 1 min. 15 sec. 16 days = 2 min. 50 sec. 30 days = 5 min. 19 sec. 60 days = 10 min. 38 sec. 90 days = 15 min. 57 sec. 365 days = 1 hr. 4 min. 39 sec.
Temperature Sensor:	NIST-traceable Precision Thermistor
High and Low Alarm Limits:	LED indicator and audible alarm set by temperature and time
Internal Clock Accuracy:	Better than 2 minutes per month
Computer Interface:	Mini USB Connector
Internal Software Provides:	Start time, Interval, User description, Alarm values, Recording status, Measurement data, Software version, Serial number, Model type
Power Source: life and	One CR2450 Lithium Battery with a 2 year operating a 5 year shelf life.
Size:	Length 9.0 cm (3.5 in.) Width 5 cm (1.96 in.) Depth 2.8 cm (1.1 in.)
Weight:	106 g / 3.7 oz.
Warranty:	12 months
CE Certified:	CE Marking File

For FDA, GxP, JCAHO, CAP, HFAP, CARF, CHAP, ACHC, URAC, HQAA, AABB and Regulatory Compliance
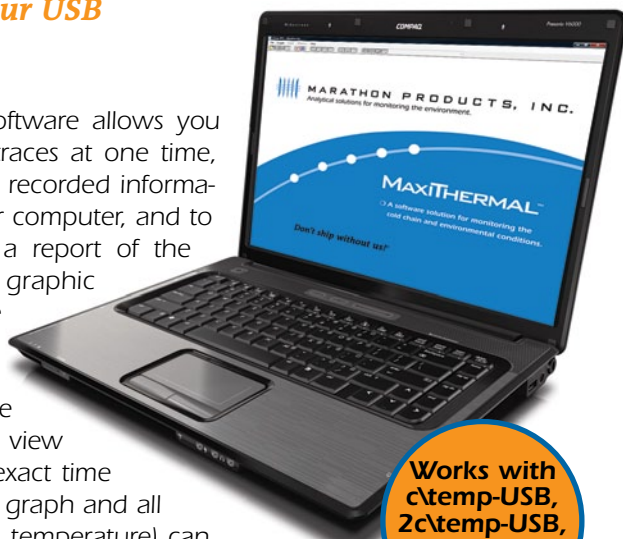
SAFE CERTIFIED SHIPPING

MARATHON PRODUCTS

MaxiThermal™ USB Software

Get the most from your USB data loggers

Marathon's MaxiThermal Software allows you to view up to 8 multiple traces at one time, enables you to transfer the recorded information in your loggers to your computer, and to view, print and generate a report of the measurement data. The graphic representations are a simple X – Y plot of time versus temperature with unlimited zoom, view temperature data points on the graph, view total elapsed time, or the exact time when it was recorded. The graph and all data points (date, time and temperature) can be printed, as well as the ability to add a user note to the file for including information pertinent to that particular plot.
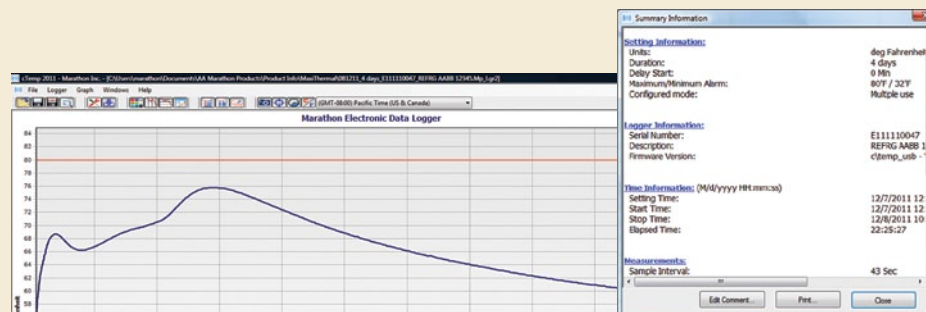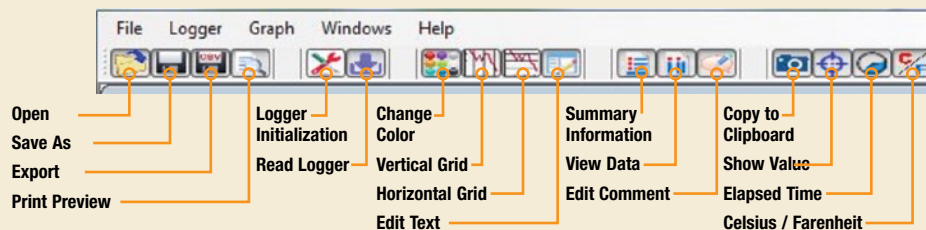
Users have the ability to view numeric data in a screen window and Data can be Exported as a CSV file for use in other software. A Summary Information report showing the specific logger information, the Start and Stop Time, Duration of Recording, Measurement Interval, Highest, Lowest, Median and Average Temperatures as well as the High and Low Alarm information.

The data from the logger is easily downloaded to your PC via a standard USB 1.1 interface. MaxiThermal software is compatible with Windows 98. NT, 2000, XP, Vista and Windows 7.
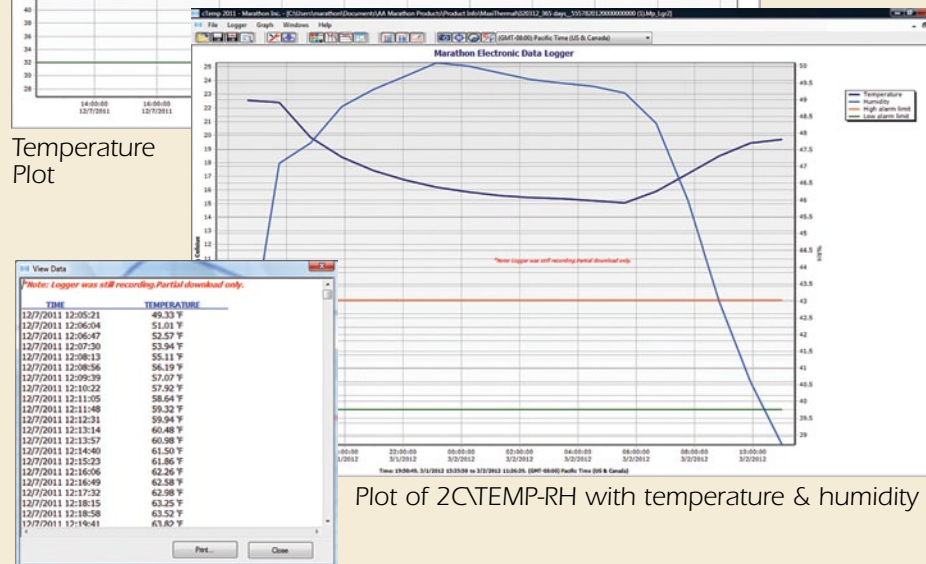
Works with c\temp-USB, 2c\temp-USB, 2c\temp-RH, & edl-USB

MaxiThermal Software Highlights

Open
Save As
Export
Print Preview
Logger Initialization
Read Logger
Change Color
Vertical Grid
Horizontal Grid
Edit Text
Summary Information
View Data
Edit Comment
Copy to Clipboard
Show Value
Elapsed Time
Celsius / Farenheit

Summary Information Window

Temperature Plot

Plot of 2C\TEMP-RH with temperature & humidity

MARATHON PRODUCTS

MaxiThermal™ WiFi Software

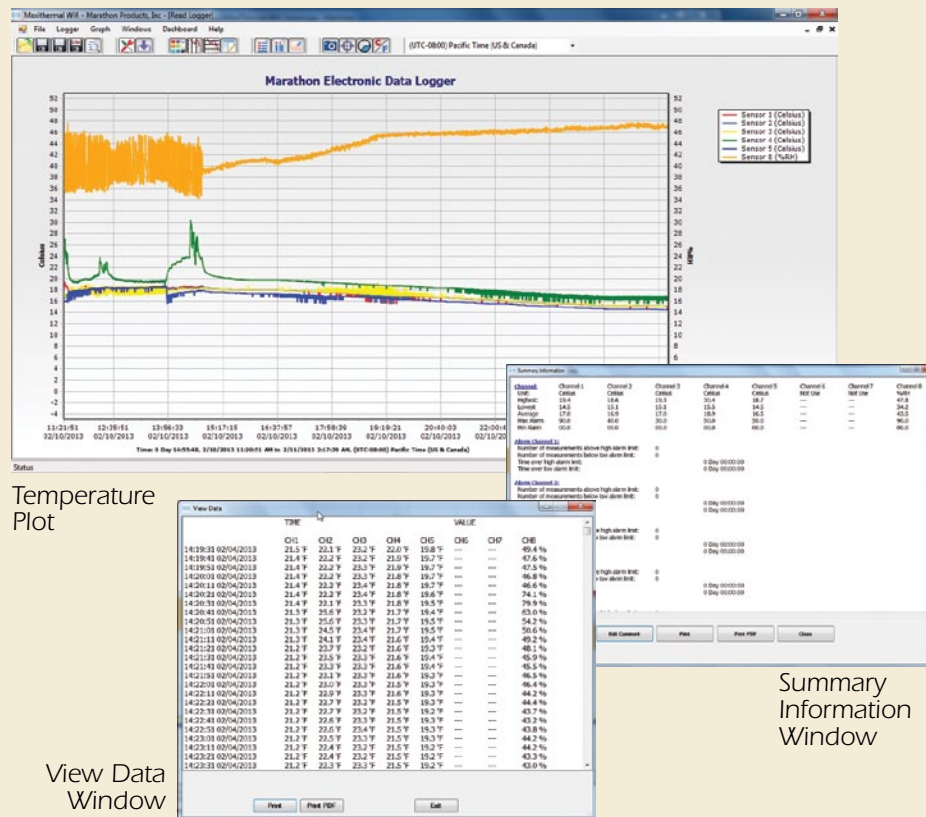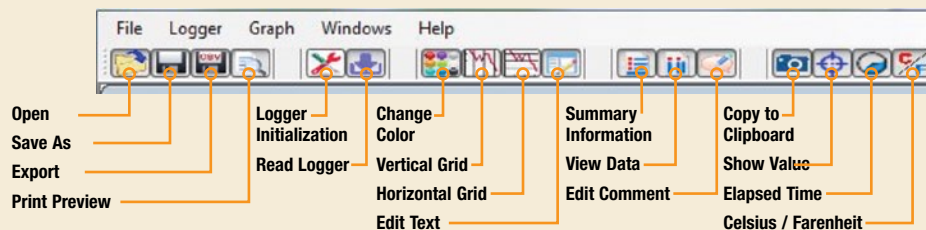*Get the most from your WiFi data loggers*

Marathon's MaxiThermal WiFi Software allows you to view up to 8 multiple traces at one time, enables you to transfer the recorded information in your loggers to your computer, and to view, print and generate a report of the measurement data. The graphic representations are a simple X – Y plot of time versus temperature with unlimited zoom, view temperature data points on the graph, view total elapsed time, or the exact time when it was recorded. The graph and all data points (date, time and temperature) can be printed, as well as the ability to add a user note to the file for including information pertinent to that particular plot.

Users have the ability to view numeric data in a screen window and Data can be Exported as a CSV file for use in other software. A Summary Information report showing the specific logger information, the Start and Stop Time, Duration of Recording, Measurement Interval, Highest, Lowest, Median and Average Temperatures as well as the High and Low Alarm information.

The data from the logger is easily downloaded to your PC via a WiFi or standard USB 1.1 interface. MaxiThermal software is compatible with Windows 98. NT, 2000, XP, Vista and Windows 7.

Works with EDL-8 WiFi

MaxiThermal Software Highlights

Open
Save As
Export
Print Preview

Logger Initialization
Read Logger

Change Color
Vertical Grid
Horizontal Grid
Edit Text

Summary Information
View Data
Edit Comment

Copy to Clipboard
Show Value
Elapsed Time
Celsius / Farenheit

Temperature Plot

View Data Window

Summary Information Window

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