# STAY CONNECTED!

## 2020
## LABORATORY
## CATALOG

**BLUETOOTH**

**NFC**

**WIRELESS**

**USB**

**ETHERNET**

**SERIAL**

IIIII **MARATHON**
**P R O D U C T S , I N C.** ®
*TEMPERATURE MEASUREMENT*
*& CALIBRATION SPECIALISTS*

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*Don't ship without us!*®

**Jon Nakagawa,**
President, CPA, CEO

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Oliver Nguyuen - IT specialist

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## 800-858-6872
Orders@marathonproducts.com

# Marathon Products, Inc.

In the era of Covid 19, it is more important than ever, that the science of physical assets and digital technologies provide greater intelligence in monitoring the cold chain.

Marathon is pleased to introduce our new Laboratory Catalog for 2020 and beyond. We are a leading designer, manufacturer and distributor of precision temperature and humidity sensors for both shipping and stationary applications.

For 30 years we have been designing and building state-of-the-art electronic precision environmental data collection devices for Fortune 500 companies. These devices furnish precise, reliable and cost-effective protective technologies.

Our innovative 2-channel data collectors cover cryogenics to high temperature applications. The EDL-CO2, and C\TEMP-80C dry ice loggers are used by leading research and semiconductor manufacturers around the world. These devices often act as the last QC gate for manufacturing semiconductors and administering essential drugs.

Current valued industries include: government laboratories, hospitals, blood banks, IVF clinics, cancer research organizations, tissue banks, pharmacies and aerospace industries.

Please visit our website to see the new line of long-range Bluetooth data loggers that allow users to instantly connect via Android or IOS smart phones, and transmit PDF data files instantly.

Marathon is IOS 9001-2015 BSI certified and our manufacturing partners are TUV -qualified. Thank you for your continued trust and confidence in our protective technologies.
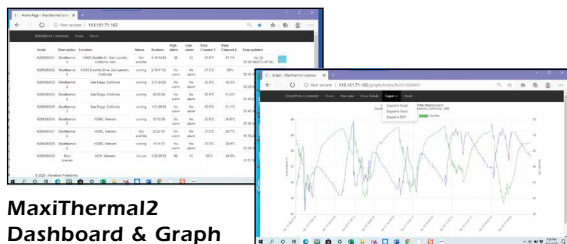
Sincerely,

Jon Nakagawa, CPA, CEO

# EDL LoRaWAN™

*24/7 Remote Temperature & Humidity Monitoring. Stay Connected — Long Range 3 Miles Line of Sight Connectivity!*

Monitor warehouses, laboratories and refrigerators in real-time, 24/7, with our EDL-LoRaWAN temperature and humidity data loggers. These long- range laboratory grade sensors are compact, high-powered and easily-installed.

Set alarms via GSM or email. Store data in a central database or to your cloud. Alerts and reports can be downloaded automatically and emailed. View all your sensors and locations from your phone.

Three models are availble to fit your needs.This system is scalable and easily upgradable. The same gateways can be used to leverage and provide continuous visualization of temperature and relativity humidity data.

**MaxiThermal2 Dashboard & Graph**



- Graph Overlays/Mapping
- Automated Reports
- Centralized Cloud Data Storage
- Automatic Email/Text Alerts
- Easy to Install

## SPECIFICATIONS : EDL-LoRaWAN

| | RH SKU#9053 | RTD / LN SKU#9054 | THERMOCOUPLE SKU#9055 |
|---|---|---|---|
| External Sensor | Temperature: Digital sensor | Probe: RTD | Probe: Thermocouple |
| Temperature Range: | -29°C to +72°C / -20°F to +161°F | Ambient: - 29°C to 380°C / -20°F to 716°F | Ambient: - 29°C to 72°C / -20°F to 161°F |
| | | RTD: -200°C to +72°C / -328°F to +161°F | Thermocouple: 29°C to 700°C / -20°F to 1292°F |
| Humidity Sensor: Range: | Capacitive MEMs 0% to 100% | Capacity MEMs 0% to 100% | N/A |
| **ALL MODELS** | | | |
| Memory/Storage | 32k per channel | | |
| Size | 105mm x 50mm x 26mm / 4.13 in. x 1.96 in. x 1.02 in. | | |
| Display | LCD screen, 4.4cm(l) x 3.5cm(w) | | |
| Power source | ER14505x3(3.6V/7.2Ah) or external 5V AC/DC converter | | |
| Range | Up to 500m indoor/urban range. 1.500m | | |
| Software: | MaxiThermal2 / APP | | |

# EDL-Beacon™

*Stay connected with our new Bluetooth EDL-Beacon temperature data logger.*

The **EDL-Beacon** has an internal sensor for monitoring ambient temperatures, and communicates wirelessly via Bluetooth Low Energy to mobile devices. Monitor refrigerators and warehouse conditions from 300 meters away using our free App on your smartphone.

- Portable, convenient and very easy to operate.
- Reusable once data is cleared.Reprogram the basic parameters using APP on your Smartphone.
- Data can easily be retrieved instantly.
- Upper and lower temperature alarm limits can be set.
- Graphs instantly produced and saved.
- Email data anywhere in the world
- Easy to operate by pressing the Start/ Stop button.

## Free BLE APP

Using the free APP will enable you to scan the broadcast information of unit including temperature, voltage, Mac address, and signal strength. Search for the device by signal strength, device name, or mac address.
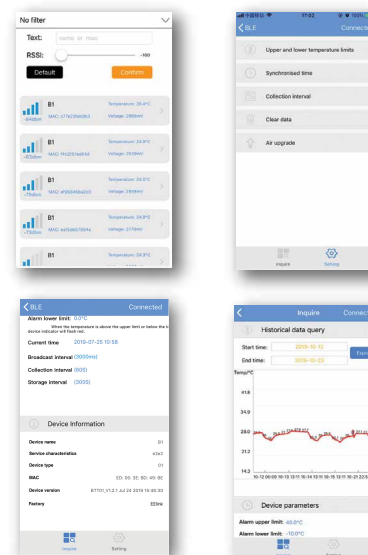


- Bluetooth Connectivity
- Real-time Global Monitoring
- Automatic Email/Text Alerts
- Easy to Use

### Customizable Parameters

- Upper & lower temperature limits
- Synchronised time
- Collection interval
- Clear data
- Temperature units
- Air upgrade

## SPECIFICATIONS: SKU 8042

| | |
|---|---|
| Data Storage Capacity: | Up to 50K data points, 180 days |
| Temperature Range: | -20°C to +60°C (-4°F to +140°F) |
| Battery: | 3.0V Li-MnO2 |
| Wireless Technology: | Bluetooth 5.0 for long range |
| Waterproof Level: | IP67 |
| Size (LxWxD): | 66.5mm x 56mm x 6.7mm / 2.61in. x 2.24in. x .26in. |
| Weight: | 27g / .95 oz. |

# EDL CO2 ™

*Very Low Temperature*

The **edl-CO2** is the world's first compact multi-use program-mable data logger capable of operating at -80°C while in direct contact with "dry ice" for extended environmental monitoring. Program and set your data logger for up to 6 months and monitor critical applications requiring low temperature environments. Laboratory freezers, blood banks and research laboratories can now benefit from our advanced circuits and latest software enabling technologies.

The internal firmware provides the following features: start time, stop time, intervals, zoom, statistical analysis, descriptions for special instructions, measurement data and after-the-fact report generation options. User selectable features also include language conversions from English to: Japanese, French, German, Spanish, and Portuguese.
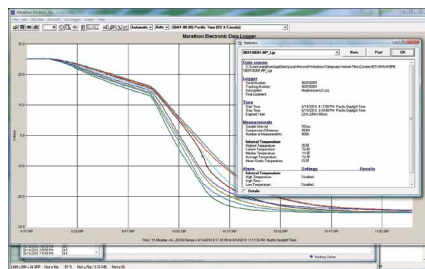
To start the recorder, simply press the start button!

(CO2) Dry Ice
Multi-Use
Compact size
Probes Available
Easy to Use

**MDAS-Pro Temperature Plots with Logger General Information**

**SPECIFICATIONS: EDL-CO2** SKU#8021

| | |
|---|---|
| Memory EEPROM, Storage: | 8k (approx. 8,000 measurements) |
| Temperature Sensor: | NIST traceable Precision Thermistor |
| Temperature Range: | +30°C to -80°C / +86°F to -113°F |
| Computer Interface: | Serial Port RS232 Cable, USB Converter |
| Power Source: | Two AA 3.6 Volt Lithium Batteries |
| Size (LxWxD): | 12.85 cm x 6.73 cm x 1.69 cm 5.06 in. x 2.65 in. x 0.66 in. |
| Weight: | 106 g / 3.7 oz. |
| Accessories | External probes |
| Software: | MDAS-Pro |

# DRY ICE LOGGERS

*Single-Use Temperatue Data Loggers for Laboratories and Shipping*

**c\temp**™ is the revolutionary single-use pre-programmed electronic temperature recorder developed by Marathon Products. Designed for measuring temperatures during the transportation of chemicals, pharmaceuticals and vaccines, the internal thermistor accurately records time and temperatures for user selectable readings in Celsius, Fahrenheit and Kelvin.

The small format makes them especially suited for situations where space limitations exist.

(CO2) Dry Ice
Single-Use
Compact size
Easy to Use

**c\tempAA DLT Single-Use**
The larger format c\tempAA has an extended battery life and can endure rough handling. Our most economical very low temperature data logging solution.

**c\temp-USB-80C S-U Coin Cell**
Collect data for up to 60 days. Connects to computers with standard USB mini-to-USB cables.

**c\temp-USB GEN2 -80C Coin Cell**
An economical and small format temperature logger. Comes with USB connectivity.

**SPECIFICATIONS:**

| | SKU# 8014 | SKU# 7042 | SKU# 7045 |
|---|---|---|---|
| Computer Interface: | Serial Port RS232 Cable & USB Converter | Mini-USB | USB Type A |
| Power Source: | Two 3.6v Lithium Batteries | Coin Cell CR2450 Single 3.6v Lithium | Coin cell ER 2450 Single 3.6v Lithium |
| Size (LxWxD): | 12.85 cm x 6.73 cm x 1.69 cm 5.06 in. x 2.65 in. x 0.66 in. | 9 cm x 5 cm x 2.8 cm 3.54 in. x 1.97 in. x 1.1 in. | 8.8 cm x 3.5 cm x 1.6 cm 3.5 in. x 1.38 in. x 0.624 in. |
| Weight: | 106 g / 3.7 oz. | 85 grams / 3.0 oz. | 85 grams / 3.0 oz. |
| **ALL MODELS** | | | |
| Memory EEPROM, Storage: | 8k (approx. 8,000 measurements) | | |
| Temperature Sensor: | NIST traceable Precision Thermistor | | |
| Temperature Range: | -80°C to +30°C / -113°F to +86°F | | |
| Software: | MDAS Read Only | | |

# EDL 4S™

## For All Your Laboratory, Cold Room and Environmental Monitoring

Obtain Temperature, RH, $CO_2$ and Vibration profiles in a compact low-cost 4-channel data logger. This device is perfect for mapping your warehouse, refrigerators or monitoring industrial machinery during shipment or stationary applications. View high/low data and all alarm conditions in real time on the large LCD display.
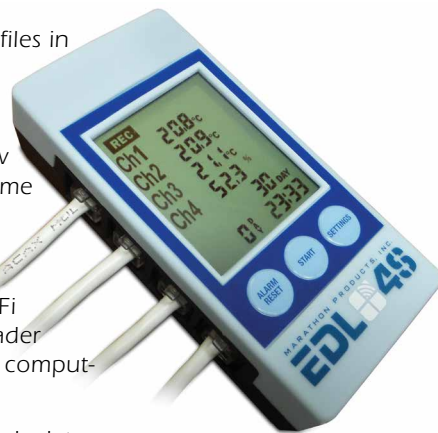
### WiFi and 4G Capability

The EDL-4S can be remotely monitored via a WiFi when attached to the separate WiFi Cellular Reader Station. The device also connects directly to the computer via a USB port for settings.

In addition to temperature and humidity data, calculate min/max. over alarm conditions and much more.

Alarm settings can be set up quickly in the MaxiThermal WiFi software based on temperature and RH. Likewise, alarm settings can be set up to trigger email notifications. This device contains one AA lithium battery for ample power.

- ❄ Liquid Nitrogen
- ⚡ Multi-Use
- 💧 Humidity
- CO₂ Carbon Dioxide
- 〰 Vibration
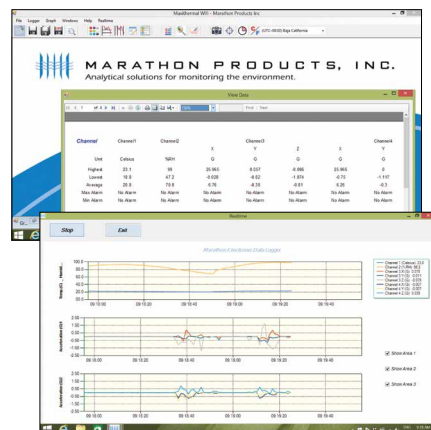
**MaxiThermal X View Data and Temperature Plots windows.**

### SPECIFICATIONS: EDL-4S SKU#7050

| | |
|---|---|
| Memory: | 128k data memory for 4 sensors |
| 4 Digital sensor options: | RTD, Humidity, CO2, Vibration |
| Temperature Range: | -200°C to +380°C / -328°F to +716°F |
| Humidity: | 0% to 100% RH |
| CO2 Sensor: | Infrared 0 to 30,000 PPM |
| Vibration: | Up to 16G and 400 hertz sampling |
| Interface: | RJ11 interface for 4 sensors |
| Communication: | USB 2.0 with mini USB-B connector / Optional WiFi via Reader Station |
| Power Source: | 1- LiSoCl2 3.6V 1.2 Ah for logger |
| Software: | MaxiThermal X |
| Accessories: | Optional cable probes up to 30 meters |
| Size: Display: | 60 mm x 40 mm |
| LxWxD | 5.0 cm x 10.5 cm x 2.5 cm / 1.96 in. x 4.13 in.x .98 in. |
| Weight: | 300 grams / 10.58 oz. |

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# CRYOGENIC LOGGERS

## Multi-Use Temperatue Data Loggers for Laboratories and Shipping

Monitor and validate your critical stem cells and biologics during transportation and storage with our small format loggers. In conjunction with our proprietary or 21CFR compliant software, document your liquid nitrogen stored products for your GxP and FDA regulated environment.

- ❄ Liquid Nitrogen
- ⚡ Multi-use
- ⊖ Compact size
- ❋ Easy to Use

### 3C\TEMP-USB -200C

It 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). NFC capable model also available.

### microDL -200

These high-precision laboratory-grade products will operate up to 3 years without a battery change. View current and stored data, prior to downloading to a computer.

### SPECIFICATIONS:

| | SKU #7065 & NFC #7066 | SKU#8030 |
|---|---|---|
| Memory EEPROM, Storage: | 8k memory | 32K (approx. 32,000 measurements) |
| Internal Sensor: | Wired chip in glass thermistor | ? |
| Operating Range | -29°C to +72°C / -20°F to +161°F | -200°C to +72°C / -328°F to +161°F |
| External Probe: | RTD Stainless Steel Tip =12 cm / 4.75 in.; Flexible Teflon-coated Cable = 61 cm / 24 in. | |
| Operating Range: | -200°C to +72°C / -328°F to +161.6°F | |
| Computer Interface: | Mini USB connector | USB cable with IR infrared detectors |
| Power Source: | CR2450 Battery | (2) 3 volt lithium coin cells. 5 year shelf life |
| Size (LxWxD): | 6.5 cm x 3.4 cm x 0.9 cm / 2.5 in. x 1.3 in. x 0.35 in. | Diameter: 2.86 cm / 1.25 in. / Height: 1.9 cm / 0.75 in. |
| Weight: | 33 g / 1.16 oz. | 30g./ 1 oz. |
| Software: | MaxiThermal2 software | MDAS-Pro Software |
| Accessories: | | Reader StationUSB Port Interface |

# c\temp Gen2™

*The Single-use Solution with USB Connectivity.*

**c\temp-Gen2** is the revolutionary single-use pre-pro-grammed 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. .

**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:** MDAS is used to read the logger. It runs on Windows 2000, XP, Vista, 7 & 10.

To download recorded information, simply plug the unit into the standard USB port of your PC.

General Purpose
Single-Use
USB
Compact Size
Easy to Use

## SPECIFICATIONS: c\temp GEN2 SKU#8017

| | |
|---|---|
| Memory: | EEPROM, 8k Storage (7,680 data points) |
| Temperature Range: | -29°C to 72°C / -20°F to 160°F |
| Measurement Intervals: | Pre-programmed from 1 minute to hours |
| Temperature Sensor: | NIST-traceable Precision Thermistor |
| Computer Interface: | USB Type A |
| Software Required: | MDAS |
| Power Source: | CR2032 lithium battery with 1 year operating life, 3 years shelf life.) |
| Size (LxWxD): | 8.8 cm x 3.49 cm x 1.58 cm 3.5 in. x 1.38 in x .0.62 in. |
| Weight:: | 85 grams / 3.0 oz. |

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# SINGLE-USE LOGGERS

## Temperature Data Loggers for Laboratories and Shipping

An economical solution for use in cold chain applications to escort critical temperature shipments of pharmaceuticals, seafood, product, dairy, meat, and other refrigerated products.

General Purpose
Single-Use
USB
Compact Size
Easy to Use

### MaxiLog-PDF

Programmed to operate for 90 days of continuous temperature recording. Economical. Compact and lightweight. No special software or drivers are required. Plug-and-play technology.

### MaxiLog-PDF Bluetooth

Small, lightweight, flat design and easy to use. It integrates Bluetooth wireless transmis-sion, utilizes convenient USB port interface and is equipped with PDF generating software. It is GDP and EN12830 compliant

## SPECIFICATIONS:

| | SKU#7049 | SKU#7030 |
|---|---|---|
| Memory Size: | 12,900 data points | Data storage capacity          15000 readings |
| Temperature Sensor: | NIST traceable Precision Thermistor | ? |
| Temperature Range: | -30°C to +70°C / -22°F to +158°F | -20°C to 70°C / -4°C to 158°C |
| Factory Programmed: | 90 days | Up to 90 days |
| Measurement Intervals: | 10 minutes | 10 minutes, customizable |
| Delayed Start: | 30 minutes | |
| Computer Interface: | USB2.0 | USB2.0 BLE broadcasting interval: 10 seconds, range: 20m (line of sight) |
| Power Source: | CR2052 lithium coin cell | 3.0v lithium battery |
| Size (L x W x D): | 56 mm x 36.5 mm x 6.9 mm 2.2 in. x 1.44 in. x0.236 in. | 75 mm x 28 mm x 5 mm 2.95 in. x 1.10 in. x 0.19 in. |
| Weight: | 16.6 g / 0.367 oz. | Approx. 10 g / 0.35 oz. |
| System Requirements: | Windows XP, 7, 8, 10. Adobe Reader software | Bluetooth connection H7 app ( ios and android) |

# MaxiLog RH™

## The Single-use Temperature and Humidity with USB Connectivity.

Now enjoy direct USB connectivity with **MaxiLog-RH**, our single-use, compact, temperature and humidity data logger!

### Functions include:

- Internal digital thermistor and RH sensor for user selectable readings in Fahrenheit or Celsius.
- LCD display for current temperature, RH and Run Times, and Over Alarm conditions.
- Alarm Values: All of our devices can be pre-programmed with delayed start and high/low alarm values.

The small compact design makes it the ideal companion for all your critical pharmaceutical and regulatory shipments. Its precision sensors are ideal capture devices to ensure product specifications have been maintained during all your shipments.

Time-stamped data is easily viewed for both temperature and relative humidity using our free read-only software.

General Purpose
Single-Use
Humidity
USB
Compact Size
Easy to Use

## SPECIFICATIONS: **MaxiLog-RH** SKU#7070

| | |
|---|---|
| Memory EEPROM, Storage: | 16k |
| Temperature Sensor: | Wired chip in glass thermistor |
| Temperature Range: | -20° C to +70° C / -4° F to +158° F |
| Humidity Sensor: | Sensirion SHT-30 |
| Humidity range: | 0 to 100% |
| Computer Interface: | USB Type A |
| Power Source: | Lithium Battery CR2032 |
| Size (LxWxD): | 8.8 cm x 3.5 cm x 1.5 cm 3.5 in. x 1.4 in. x 0.6 in. |
| Weight: | 32 g / 1.13 oz. |
| Software: | MaxiThermal2 software |
| Accessories: | USB Cable |
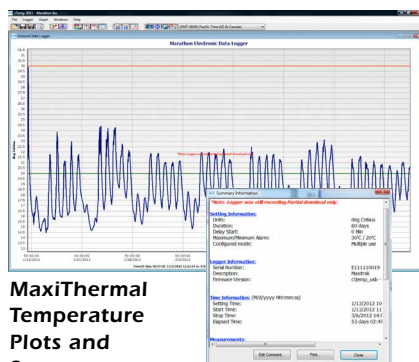
MaxiThermal Temperature Plots and Summary Information window.

# TEMPERATURE & HUMIDITY

## Temperature & Humidity Data Loggers for Laboratories and Shipping

Electronic temperature data recorders specifically designed for measuring temperature and humidity during the transportation of refrigerated vaccines, biological material, chemicals, pharmaceuticals, and for documenting the transportation of perishable commodities. They are NIST-Traceable and come with Certificates of Conformance. Multi- and single-use versions are available.

General Purpose
Multi- Single-Use
Humidity
USB
Compact Size
Easy to Use

### 3\TEMP-RH

Accurately records time and temperatures in Celsius or Fahrenheit. LCD display provices real-time viewing of current temperature, Max/Min Temperature, Run Time, Alarm Status, and Recording.

Single-use version available.

### EDL-BT04

Collect temperature and RH measurements on your Android phone using the latest Bluetooth 4.0 technology and our mobile phone APP. Email data files anywhere in the world. It is small and lightweight.

## SPECIFICATIONS:

| SKU#7061 | | SKU#8023 |
|---|---|---|
| Memory EEPROM, Storage: | 8k Temperature, 8K RH | 256k Temperature & RH |
| Temperature Sensor: | MEMS | Sensor |
| Temperature Range: | -29° C to +72° C / -20° F to +160° F | -40° C to +72° C / -40° F to +162° F |
| Humidity sensor | CAPACITIVE MEMS | Sensor |
| Humidity range | 0 to 100% | 0% to100% RH |
| Computer Interface: | Mini USB connector | Bluetooth 4.0 |
| Power Source: | CR2450 Battery | 600mAh /3V |
| Size (LxWxD): | 6.5 cm x 3.4 cm x 0.9 cm 2.5 in. x 1.3 in. x 0.35 in. | 50mm x 50mm x 20mm 1.97in. x 1.97in. x 0.78 in. |
| Weight: | 33 g / 1.16 oz. | 30g /1.05 oz. |
| Software: | MaxiThermal2 software | APP |
| Options: | USB Cable | |

# micro2™

## For all your FDA shipments.

Our new micro2 is a compact multi-use, precision-edge device for capturing all your critical temperature data for storage and transportation needs. This Data logger is highly versatile and can be used for those tight spaces needing compliance monitoring. Its light weight and small size make it ideal for dropping into your refrigerated boxes for drugs, vaccines, insulin and biologic shipments. And for pharmacies, cabinets and refrigerators, this device is perfect!

The compact LCD screen will show high/low and current temperatures in either Fahrenheit or Celsius. An external probe is available for -200°C to +72°C ranges. View two temperatures, ambient and probe from the LCD. If alarms have been triggered, the display will warn the user to proceed with caution.

The reader station is compact and plugs directly into the USB port for easy downloading of temperature profiles. MaxiThermal software, reader station and cable are sold separately. 21 CFR software is also available if required.
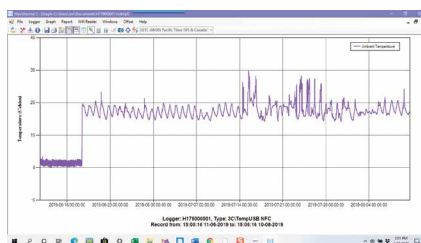
- Multi-Use
- Pharmaceutical
- Shipping
- LCD Screen
- Easy to Use

**MaxiThermal2 Graph**

### SPECIFICATIONS: micro2

|  | micro2 SKU #8200 | micro2 -200C SKU #8201 |
|---|---|---|
| Memory EEPROM, Storage: | 8k Temperature per channel | 8k Temperature per channel |
| Ambient sensor: | Digital sensor | Digital sensor |
| Temperature range | -29° C to +72° C / -20° F to +160° F | -29° C to +72° C / -20° F to +160° F |
| External sensor: | N/A | PT-100 |
| Temperature range | N/A | -200° C to +72° C / -328° F to +160° F |
| Computer Interface: | Reader station. | Reader station. |
| Power Source: | CR1632 Battery. | CR1632 Battery. |
| Size | Diameter: 2.8 cm / 1.1 in. Height: 1.1 cm / 0.4 in. | Diameter: 2.8 cm / 1.1 in. Height: 1.1 cm / 0.4 in. |
| Required Accessories: | MaxiThermal2 software USB Cable Reader station | MaxiThermal2 software USB Cable Reader station |

# MICRO-DL

## For all your FDA shipments

The microDL is a revolutionary multi-use program-mable data logger for displaying and recording temperatures for shipping and storage applications. Now all of your critical biologics, cancer drugs and vaccines can be immediately temperature qualified with our LCD display technologies. Small, yet so powerful, this investigative temperature-collecting device is your answer for regulatory compliance. Our digital display technology gives you on-the-spot verification that the internal tempera-tures of your packaged contents meets specifica-tions before and after shipment. Research laborato-ries and physicians can now immediately validate temperature information for clinical studies and patient administration.

Widely customizable with optional memory sizes of 8K, 32K and 64K, and multiple probe options.

Download all of its data to your PC with the proprietary microDL USB Reader and Marathon's easy-to-use MDAS-Pro software. 21CFR compliant software is available with full database capabilities.

Standard Stainless Steel Probe

Micro Stainless Steel Probe

Flat Flex Probe

Detachable Flat Flex Probe

Flexible Teflon Probe with Stainless Steel Tip

### SPECIFICATIONS:

| SKU number | 8057 | 8033 | 8049 |
|---|---|---|---|
| Model Name | mdl8 | mdl32 | mdl64 |
| EEPROM Memory | 8K | 32K | 64K (variable) |
| Temperature Range | -30°C to 72°C -22°F to 161°F | -40°C to 72°C -40°F to 161°F | -40°C to 72°C -40°F to 161°F |
| Features |  |  |  |
| Stainless steel backs | Yes | Yes | Yes |
| Variable memory | No | No | Yes |
| Continuous memory | No | Yes | Yes |
| Weight | 17 g (0.6 oz.) | 17 g (0.6 oz.) | 17 g (0.6 oz.) |
| Mean Kinetic Temp. | Yes | Yes | Yes |

**ALL MODELS**

| Sensor | Nist-tracable Thermistor |
|---|---|
| Power Source | (2) 3 volt lithium coin cells. |
| Size | Diameter: 2.86 cm / 1.25 in. Height: 1.4 cm / 0.5 in. |
| Reader Station | USB 1.1 Port Interface |

### PROBES:

Standard Stainless Steel Probe, SKU #8065 SP
- Length: 15.24 cm / 6 in. or custom lengths
- Diameter: 3.49 mm / 0.136 in.

Micro Stainless Steel Probe, SKU #8061 MP
- Length: 7.06 cm / 2.78 in. or custom lengths
- Diameter: 1.8 mm / 0.07 in.

Flat Flex Probe, SKU #8060 FP
- Length: 61 cm / 24 in. or custom lengths
- Width: 0.76 cm / 0.3 in.

Detachable Flat Flex Probe, SKU #8074 RJ11
- Length: Custom Lengths
- Width: 0.76 cm / 0.3 in.

Flexible Teflon Probe with
Stainless Steel Tip, SKU #8105 FTP
- Total Length: 50.8 cm / 20 in. or custom lengths
- Stainless Steel Tip: 15.24 cm / 6 in.
- Diameter: 3.49 mm / 0.136 in.

# MaxiLog Hx™

*For All Specialty Pharmacies and Wholesalers of Pharmaceutical Drugs to Retailers and End Users.*

Our Maxilog-HX data logger comes in a compact size for all of your drugs, injectables, specialty creams, birth control, and diabetic drugs needing 24/7 quality assurance compliance.

Using this micro edge alert monitor, retail specialty pharmacies can send temperature sensitive prescription medications directly to end users. By noting the status of the ON and Alarm LEDs, patients will know whether the alarm has been triggered and can easily ascertain whether their medications stayed temperature compliant. This way, the end user can determine whether it is SAFE to use the delivered prescriptions.

If the Alarm LED is "flashing red," the product has exceeded either high or low temperature specifications and the product should not be used. The pharmacy/shipper should be immediately contacted and informed that the drugs were not temperature compliant during delivery.
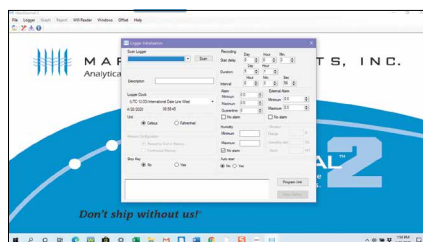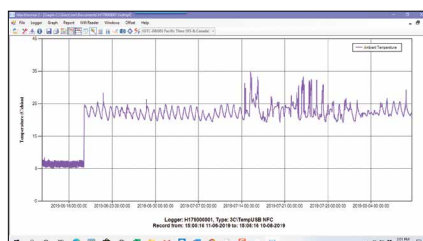
Setting the high and low temperature limits, recording intervals,  and downloading data is easy with Marathon's MaxiThermal2, software. Just plug the reader station into the USB port of a computer to read and program.

- ⚙ Multi-Use
- ◌ Pharmaceutical
- ▱ Shipping
- ✳ LED Alarm
- ✿ Easy to Use

## SPECIFICATIONS: **MaxiLog-HX** SKU#7049

| | |
|---|---|
| Memory EEPROM, Storage: | 2k Temperature |
| Temperature Sensor: | Digital sensor |
| Temperature Range: | -29° C to +72° C / -20° F to +160° F |
| Computer Interface: | USB Standard A for Reader Station. |
| Power Source: | CR2016 Battery |
| Size (LxWxD) | |
| Maxilog-Hx | 3.0 cm x 3.0 cm x 0.85 cm |
| | 1.18 in. x 1.18 in. x 0.34 in. |
| Reader Station | 4.7 cm x 3.4 cm x 2.67 cm |
| | (1.85 in. x 1.34 in. x 1.05 in. |
| Weight  Maxilog-Hx: | 7 grams / 0.25oz |
| Software: | MaxiThermal2 software |

**MaxiThermal2
Dashboard & Graph**

# 21 CFR Software™

*Marathon CRM Software for Regulatory Compliance*

Meeting the FDA's requirements for electronic records and electronic signatures used in the pharmaceutical and biotech industries, our database and Customer Relationship Management Software has been designed for the biotech, medical, and pharmaceutical industries to comply with the Code of Federal Regulations Section 21 CFR Part 11 as required by the Food and Drug Administration.

Marathon 21 CFR DB validates data and works seamlessly with Marathon's intelligent data collection devices. The software provides sophisticated data encryption and storage, administrative and multi-level user security profiles, and tools for manipulating and retrieving data. In conjunction with Marathon's time and temperature data loggers, the software provides a complete analytical solution for quality assurance. Our industry focused approach benefits your operations even if your best practices do not require regulatory compliance.
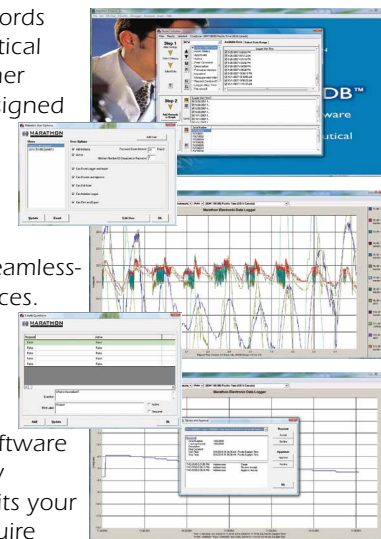
| SOFTWARE FEATURES | MARATHON 21CFR DB | MARATHON 21CFR LE |
|---|---|---|
| • Secure Database | Full Database | Limited Edition |
| • Electronic Signatures | | |
| • Levels of access permission, privileges, and authorization to customize user actions | 5 users plus administrator | 2 users plus administrator |
| | Up to 120 traces in one graph | 1 trace by graph only |
| • Audit Trails | One document containing the set of testing procedures and the template to perform the in-house validation | Optional Validation Manual, $250 |
| • User Names, Login Names & Passwords | | |
| • Password Minimum Number of Characters and Expire Interval | | |
| • Record Statistics & Details | A document reports how the 21CFR DB software addresses the 21 CFR Part 11 Requirements | A document reports how the 21CFR LE software addresses the 21 CFR Part 11 Requirements |
| • Microsoft Access Database | | |
| • Intelligent Handling of Time Zones | RECOMMENDED FOR: | RECOMMENDED FOR: |
| • Export Data to other 21 CFR Databases | • Companies with multiple locations | • Companies with only one location |
| • Read Logger | • Manage more than 100 records a year | • Manage less than 100 records a year |
| • Mean Kinetic Temperature | • Require more than 2 users | • Require no more than 2 users |
| | • Require software validation documents in place for FDA inspections | • Write their own validation manual |
| 21CFR DB ADDITIONAL FEATURES: | • Use multi-use & single use units. | • Use multi-use & single use units. |
| • Record Search Filter | • Logger Initialization | • Logger Initialization |
| • Customized Filter Attributes | | |
| • Record Summary | | |
| • Customized Data Entries & Queries | 2 years of customer support, service packs and version upgrades (including enhancements). 90 day warranted satisfaction or full refund | 1 year of customer support, service packs and version upgrades (including enhancements) 90 day warranted satisfaction or full refund |
| • Realtime Display | | |
| • Import Record | | |

**MARATHON 21CFR Viewer: Available for single-use loggers.**

## MARATHON PRODUCTS

# Temperature & Humidity Mapping Services™

## *The Key Element in Risk Management*

Temperature mapping is used to generate a temperature profile for a facility. This includes warehouses, cold rooms, refrigerators, or vessels in order to ensure it maintains the temperature range required by specific temperature sensitive products. Mapping ensures that adequate systems are in place by identifying potential environmental control problems before products become ineffective or spoiled.

Mapping is an essential exercise to determine locations of real-time monitoring sensors so that critical thermal environments can be time stamped and assessed.

**Marathon can offer**

▪ Solutions for every budget

▪ Access to experts with years of experience

**Our Data logging solutions offer:**

▪ Continuous Monitoring

▪ Alerts and Notifications

▪ Temperature & humidity mapping with start to stop analysis comparisons for multiple sensors by simultaneous DATE and time stamping. For instance, hundreds of loggers can be started and stopped simultaneously so all loggers can be temperature profiled at the precise date and time, mapping exercises begun and stopped!

*NOW Begin your temperature mapping strategies with exact START and STOP time options.*

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## Marathon Products offers these solutions for your Mapping Plan

**REFERRALS:** Access to experts with years of experience

**LOGGERS WITH THE FUNCTIONS YOU NEED:**

▪ Data Capacity:          ▪ Sample Rate

▪ Accuracy               ▪ Size

▪ Monitoring Range       ▪ Networking

▪ Power Requirements     ▪ Environmental Senso   rs

**CALIBRATIONS:** Marathon Products is ISO 9001-2015 Certified and all of our products are NIST-traceable.

**SOFTWARE:** Marathon Products has easy to use software with 21 CFR Part 11 compliant versions.

*Don't ship without us!*®

temperature

humidity

vibration

$CO_2$

# MARATHON
## PRODUCTS, INC.

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