MARATHON PRODUCTS, INC.

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Who we are…

Manufacturer and global supplier of temperature data-collecting devices used for documenting environmentally-sensitive products throughout the cold chain. ISO 9001:2000 certified.

Cold Chain Solutions
Don't Ship without Us!®

PRODUCTS

» **Multi-use Recorders**

  ♦ General Purpose (-29°C)
  ♦ LCD-Digital Display (-40°C)
    ▪ micro-DL red
    ▪ micro-DL red with probe
    ▪ micro-DL silver
    ▪ micro-DL silver with probe
    ▪ microDL-80C with flex probe
  ♦ Low Temperature (-40°C)
  ♦ Temperature & Humidity (-35°C)
  ♦ High Temperature (+125°C)
  ♦ Dry Ice Applications (-80°C)
  ♦ Cryogenic (-200°C)
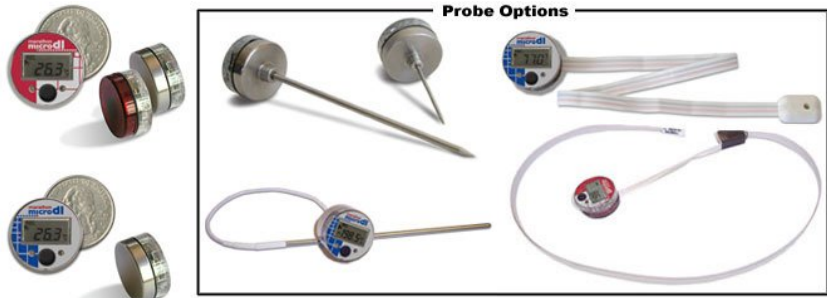
» **Single-use Recorders**

» **RF Wireless Recorders**

» **Ethernet & WiFi Recorders**

» **Strip Chart Recorders**

» **Software & Accessories**

» **Cryogenic**

» **Packaging & Container Seals**

HOW LONG DOES IT RECORD?
CLICK TO SEE
the effect of memory size & interval on recording duration.

♦ **LCD-Digital Display Temperature Data Loggers**

Click on the images above for an enlarge view and description.

Probe Options

microDL

Marathon's micro-DL is a user-programmable data logger engineered for displaying real-time temperature as well as the ability to scroll through a summary of recorded history information and high and low alarm status. State-of-the-Art electronics and water-resistant, this temperature data logger is available for use with our MDAS software or our 21CFR-DB software to comply with the FDA 21CFR Part 11 regulations.

Many configurations are available. Choose the memory size (which determines the maximum number of data points) and the temperature range to record (temperature ranges from -10C to +72C down to -200C to -100C). Then decide on the style: without a probe, with a probe, stainless steel, flat ribbon probe, teflon coated, or detachable. Single-use disposables are also available.

Tell us what you need and we will assemble a configuration to suit your needs.

Temperature Monitors and Temperature Sensors for Logging and Recording in Critical Environments. Specifications of Some of Our Most Popular Configurations.

Model	EEPROM Memory	Temperature Range Low/High	Temperature Accuracy At Center At Extremes	SS	VM	CM	Weight	Warranty
Red microDL - Internal sensor								
mDL4	4K	-10C / 72C 14F / 161F	0.5C / 1.0F 1.0C / 2.0F	NO	NO	NO	0.3 ounce 8 grams	12 months
mDL8	8K	-30C / 72C -22F / 161F	0.2C / 0.4F 0.5C / 1.0F	NO	NO	NO	0.6 ounce 17 grams	12 months
Silver microDL - Internal sensor								
mDL32	32K	-30C / 72C -22F / 161F	0.2C / 0.4F 0.5C / 1.0F	YES	NO	YES	0.6 ounce 17 grams	12 months
mDL64	64K (variable)	-30C / 72C -22F / 161F	0.2C / 0.4F 0.5C / 1.0F	YES	YES	YES	0.6 ounce 17 grams	24 months
Red or Silver microDL with micro probe								
mDL8mp	8K	-30C / 72C -22F / 161F	0.2C / 0.4F 0.5C / 1.0F	YES	NO	NO	0.6 ounce 17 grams	12 months
mDL32mp	32K	-40C / 72C -40F / 161F	0.2C / 0.4F 0.5C / 1.0F	YES	NO	NO	0.6 ounce 17 grams	12 months
mDL64mp	64K (variable)	-40C / 72C -40F / 161F	0.2C / 0.4F 0.5C / 1.0F	YES	YES	NO	0.6 ounce 17 grams	24 months
Red or Silver microDL with standard probe								
mDL8sp	8K	-30C / 72C -22F / 161F	0.2C / 0.4F 0.5C / 1.0F	YES	NO	NO	0.6 ounce 17 grams	12 months
mDL32sp	32K	-40C / 72C -40F / 161F	0.2C / 0.4F 0.5C / 1.0F	YES	NO	NO	0.6 ounce 17 grams	12 months
mDL64sp	64K (variable)	-40C / 72C -40F / 161F	0.2C / 0.4F 0.5C / 1.0F	YES	YES	NO	0.6 ounce 17 grams	24 months
Red or Silver microDL with flat probe								
mDL4fp	4K	-10C / 72C 14F / 161F	0.5C / 1.0F 1.0C / 2.0F	NO	NO	NO	0.3 ounce 8 grams	12 months
mDL8fp	8K	-30C / 72C -22F / 161F	0.2C / 0.4F 0.5C / 1.0F	NO	NO	NO	0.6 ounce 17 grams	12 months
mDL32fp	32K	-30C / 72C -22F / 161F	0.2C / 0.4F 0.5C / 1.0F	NO	NO	YES	0.6 ounce 17 grams	12 months
mDL64fp	64K (variable)	-30C / 72C -22F / 161F	0.2C / 0.4F 0.5C / 1.0F	NO	YES	YES	0.6 ounce 17 grams	24 months
Silver microDL-80 for Dry Ice Applications with flat probe								

					SS	VM	CM		
mDL480fp	4K	-80C / 30C -112F / 86F	0.5C / 1.0F 1.0C / 2.0F		NO	NO	NO	0.6 ounce 17 grams	12 months
mDL880fp	8K	-80C / 30C -112F / 86F	0.5C / 1.0F 1.0C / 2.0F		NO	YES	YES	0.6 ounce 17 grams	12 months
mDL3280fp	32K	-80C / 30C -112F / 86F	0.5C / 1.0F 1.0C / 2.0F		NO	NO	NO	0.6 ounce 17 grams	12 months
mDL6480fp	64K (variable)	-80C / 30C -112F / 86F	0.5C / 1.0F 1.0C / 2.0F		NO	YES	NO	0.6 ounce 20 grams	24 months

SS = Stainless Steel Back, VM = Variable Memory, CM = Continuous Memory

Required Accessories:

microDL Reader Station
- Interface: USB, Version 1.1 Compliant
- Height: 24mm (0.96")
- Diameter: 44.84mm (1.76")
- Weight: 16g (0.5 oz)
- Cable length: 81.3cm (32")

microDL Software

Display Examples

Press the Start button to see the following information display with each press of the start button:

1. REC - 8.6C
shows RECording and current temperature

2. RUN - 11 D
shows elapsed time in days

3. MKT - 9.1C
shows mean kinetic temperature (available on silver model only)

4. HI - 15.2C
shows alarm has occurred and high temperature

5. LOW - 8.2C
shows alarm has occurred and low temperature

6. HI HR - 0.3
shows alarm time hours over high threshold

7. LOW HR - 1.1
shows alarm time hours over low threshold

8. 14.9C
Push to return to current temperature

For more information:

Download a PDF of the **microDL Product Brief.**
Download a PDF of the **microDL Quick Start Guide**.

To open the PDF files above, you will need Acrobat Reader 9.0 or higher. Click the icon to download the latest reader software.