MARATHON PRODUCTS MICRODL M

For all your FDA shipments

The microDL is a revolutionary multi-use programmable 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 display technologies. Small, yet so powerful, this investigative temperature-collecting device is your answer for regulatory compliance.

With optional memory sizes of 4K, 8K, 32K and 64K, and accuracy and resolution of 0.2°C, our digital display technology gives you on-the-spot verification that the internal temperatures of your packaged contents meets specifications prior to shipment. Research laboratories and physicians can now immediately validate temperature information for clinical studies and patient administration.

Alarm conditions can be programmed for start/delay, high/low, continuous or

cumulative time over alarm. Push the start button to view critical temperature information anytime.

Press the start button to display the following information: current temperature, elapsed time in days, MKT(Mean Kinetic Temperature), high

temperature, low temperature, alarm time over high temperature, alarm time below low temperature and alarm conditions.

The microDL is a state-of-the-art, water-resistant data logger with non-volatile memory for data retention. For a complete analytical solution, simply download all of its data to your PC with the proprietary microDL USB Reader and Marathon's easy-to-use MDAS-Pro software. Compatible with Microsoft Windows XP, Vista, 7, 8 and 10. 21CFR compliant software is available with full database capabilities.



Temperature Range

mDL4 -10°C to 72°C mDL8 -30°C to 72°C mDL32 -40°C to 72°C mDL64 -40°C to 72°C

Temperature Accuracy

(NIST traceable) ±0.2°C at zero degree ±1.0°C at extremes

Measurement intervals

2 seconds to months

EEPROM Memory

4k to 64k







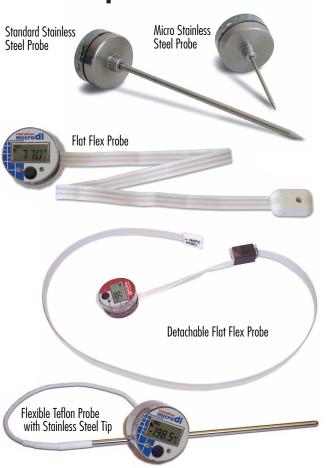
microDL Specifications

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ser programmable from 2 seconds to months
2) 3 volt lithium coin cells. 10 year shelf life rith approx. 3 year continuous operating mode.
igh & Low Alarms set by temperature and time
iameter: 2.86 cm (1.25 in.), Height: 1.4 cm (0.5 in.)
roduct package hermetically sealed to an IP66 rating.
SB 1.1 Port Interface
/indows XP, Vista, 7, 8 and 10
ist-tracable Thermistor

SKU number Model Name	8040 mdl4	8057 mdl8	8033 mdl32	8049 mdl64
EEPROM Memory	4K	8K	32K	64K (variable)
Temperature Range				
Low / High	-10°C / 72°C	-30°C / 72°C	-40°C / 72°C	-40°C / 72°C
	14°F / 161°F	-22°F / 161°F	-40°F / 161°F	-40°F / 161°F
Temperature Accuracy				
At zero	0.5°C / 1.0°F	0.2°C / 0.4°F	0.2°C / 0.4°F	0.2°C / 0.4°F
Extremes	1.0°C / 2.0°F	0.5°C / 1.0°F	0.5°C / 1.0°F	0.5°C / 1.0°F
Features				
Stainless steel backs	No	Yes	Yes	Yes
Variable memory	No	No	No	Yes
Continuous memory	No	No	Yes	Yes
Weight	8 g (0.3 oz.)	17 g (0.6 oz.)	17 g (0.6 oz.)	17 g (0.6 oz.)
Mean Kinetic Temp.	No	No	Yes	Yes
Warranty	60 days	12 months	12 months	24 months

DISPLAY EXAMPLES

Probe Options



Press the Start butto
marathon dl REC 8.5 %
1. REC: 8.6°C shows recording and current temperature
microdl.

5. LOW: 8.2°C

and low temperature

shows alarm has occurred





3. MKT: 9.1°C



4. HI: 15.2°C shows alarm has occurred and high 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. REC: 8.6°C Push to return to current temperature

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.)			

Also available in ultra low temperature (-80°C) and cryogenic (-200°C) configurations.

Please call 1-510-562-6450

for more information or to place an order.

www.marathonproducts.com

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