MARATHON PRODUCTS

microDL-80C

Record and Log Ultra-low Temperatures in Shipments, Refrigerators or Freezers

Our multi-use microDL-80C digital display technology now operates at ultra-low temperatures of -80°C (-112°F). The compact, coin-sized unit with the external thermistor probe can now help you verify that internal temperatures of your dry ice packages meet specifications prior to acceptance of your shipment. Simply push the start button to view critical temperature information upon arrivals. With optional memory sizes of 8k, 32k and 64k, accuracy and resolution of 0.5°C, and a one meter long flexible ribbon probe this product is the answer for data logging ultra low temperature freezers or dry ice shipments.

Flexible - Pressing the button will display the following visual information: whether or not the logger is Recording, the 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. Customizable settings include: Delay to Start, Stop, Elapsed Time as well as customizable sampling time intervals. Also available: User Descriptions for initialization and for downloading the data.

Visual Alarms - All our data loggers have the ability to program alarm limits. Should the temperature reach levels outside these limits, the digital display will show a notice until reset by the user.

Computer Ready - You can download the recording to your PC and plot the data, at any time. Our proprietary microDL USB Reader is needed to download temperature information to a computer.

Marathon's easy-to-use MDAS-Pro software is available for PCs running Microsoft Windows XP, Vista, 7, 8 and 10. 21CFR compliant software is available with full database capabilities.

Temperature Range -80°C to 30°C

Temperature Accuracy

(NIST traceable) ±0.5°C at zero degrees ±1.0°C at extremes

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Measurement intervals

2 seconds to months

EEPROM Memory

8k to 64k

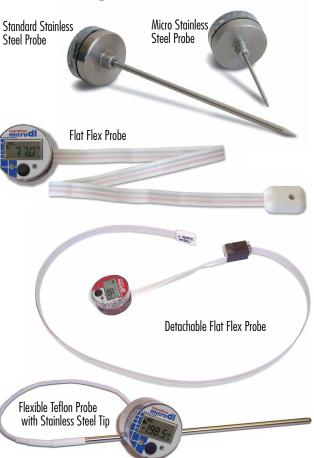


microDL-80C Specifications

User programmable from 2 seconds to months
(2) 3 volt lithium coin cells, IATA - FAA Compliant. 10 year
shelf life with approx. 3 year continuous operating mode.
High & Low Alarms set by temperature and time
Diameter: 2.86 cm (1.25 in.), Height: 1.4 cm (0.5 in.)
Product package hermetically sealed to an IP66 rating.
USB 1.1 Port Interface
Windows XP, Vista, 7, 8 and 10
Nist-tracable Thermistor
RTCA/D-160 Ver. D, Section 21, Category H. / CE Marking

SKU number Model Name	8058 FP mdl8	8035 mdl32	8051 w/FP mdl64
EEPROM Memory	8K	32K	64K (variable)
Temperature Range			
Low / High	-80°C / 30°C	-80°C / 30°C	-80°C / 30°C
	-112°F / 86°F	-112°F / 86°F	-112°F / 86°F
Temperature Accuracy	•	·	
At zero	0.5°C / 1.0°F	0.5°C / 1.0°F	0.5°C / 1.0°F
Extremes	1.0°C / 2.0°F	1.0°C / 2.0°F	1.0°C / 2.0°F
Features	•		•
Stainless steel backs	Yes	Yes	Yes
Variable memory	No	No	Yes
Continuous memory	Yes	Yes	Yes
Weight	17 g (0.6 oz.)	17 g (0.6 oz.)	17 g (0.6 oz.)
Mean Kinetic Temp.	Yes	Yes	Yes
Warranty	12 months	12 months	24 months

Probe Options



	DISPLAY	EXAMPLES
Press the Start but	ton to see the follow	ring information disp



1. REC: 8.6°C shows recording and current temperature



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



2. RUN: 11 D shows elapsed time in days



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



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



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



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



8. REC: 14.9°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 standard temperature (-10°C to -40°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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