

# MPIII Temperature Data Logger

Adaptable to almost any situation, MPIII Temperature Loggers measure less than an inch (without probe or Thermal Pack). Their small size increases versatility and precision by allowing you to position Loggers very near or inside monitored items. From chilling, freezing and room temperature to pasteurization, EtO sterilization and depyrogenation, MPIII Temp, HiTemp and HiTemp EXT Loggers provide accurate data over a wide range with remarkable ease.

- Wireless Temperature Data Loggers
- Field Calibration / Battery Change
- 16,000 NIST-traceable Data Points
- FDA 21 CFR Part 11 Compliant Software
- Intrinsically Safe



## Three models ensure precise monitoring across a broad temperature range

With three Temperature Data Logger models to choose from, DataTrace makes it easy to monitor processes across a spectrum of temperatures in industries and situations such as:



- Pharmaceuticals
- Food and beverages
- Medical
- Sterilizer validation
- Thermal processing for electronic, chemical, aerospace and other industries
- Process equipment and sterilization
- Product handling and storage
- Textile manufacturing

Because MPIII Loggers have no wires or cables, setup is fast and simple. Field calibration and battery changes are easy and Loggers can be programmed in seconds using a PC and intuitive DataTrace software. Automatic downloads, lethality calculations and graphs save time while reducing overall monitoring costs.

At the heart of the solution is DataTrace's intuitive and highly secure, FDA 21 CFR Part 11 compliant DataTrace software. You can't beat it for flexibility and ease of use. Create reports in any format you want. Save time and money with automatic downloads and graphs. Use password protected access, electronic signatures and automatic documentation for audit trails to streamline your work. Even synchronize multiple Loggers (in any combination of Logger types) to the same program.



## Product Specifications

Features / Options	Temp Logger Dual Temp Logger	HiTemp Logger	Ext HiTemp Logger
<i>Probe Type</i>	Rigid, Bendable or Flex	Flex	Bendable
<i>Rigid Probe Lengths</i>	1 - 5", custom	N/A	N/A
<i>Flexible Probe Types</i>	Silicone Stainless Steel	Stainless Steel	N/A
<i>Flexible Probe Tips</i>	Needle Taper (Silicone Only)	Needle	N/A
<i>Flexible Probe Lengths</i>	8", 14", 25", custom	8", 14", custom	N/A
<i>Bendable Probe Lengths</i>	10", 14", 25", custom	N/A	10", 14", 25", custom
<i>Bendable Probe Tips</i>	Round	N/A	Round
<i>Sensor Element</i>	Thermistor or RTD	Thermistor only	RTD only
<i>Accessories</i>	Consult your Rep	Consult your Rep	Consult your Rep

### Operating Temperatures

MPIII Temp and MPIII Dual Temp: -20°C (-4°F) to +140°C (+284°F)  
 MPIII HiTemp\*: +100°C (+212°F) to +360°C (+680°F) w/Thermal Pack  
 MPIII HiTemp EXT\*: -20°C (-4°F) to +400°C (+752°F) w/Thermal Pack

### Temperature Accuracy:

MPIII Temp/Dual:  $\pm 0.1^\circ\text{C}$  ( $\pm 0.2^\circ\text{F}$ )  
 MPIII HiTemp\*:  $\pm 0.5^\circ\text{C}$  ( $\pm 0.9^\circ\text{F}$ )  
 MPIII HiTemp EXT\*:  $\pm 0.25^\circ\text{C}$  ( $\pm 0.45^\circ\text{F}$ );  $<200^\circ\text{C}$  (392°F)  
 $\pm 0.5^\circ\text{C}$  ( $\pm 0.9^\circ\text{F}$ );  $\geq 200^\circ\text{C}$  (392°F)

**Operating Pressure:** For all 3 models: Up to 10 Bar

### Physical

**Size:** Width: 0.7 in. (18mm) Length: 0.8 in. (20mm)\*\*  
**Weight:** 0.5 oz. (15 grams)\*\*  
**Material:** 316 stainless steel; Sapphire IR windows

### Monitoring Parameters

**Memory:** 16,000 time/temperature observations  
**Sample rates:** Operator programmable 1 sec. to 18 hr. intervals

### Mechanical

**Calibration:**  
 Factory calibrated (NIST traceable)  
 Field calibration (MPIII Temp/Dual only)

**Battery Type:** Lithium (field-replaceable)  
**Clock accuracy:** 26 seconds per 24 hours  
**Certifications:** ATEX (for intrinsic safety)

\*Hi Temp & Hi Temp EXT Loggers require a Thermal Pack for use above +140°C.  
 \*\*Size and weight are shown for Logger body only.

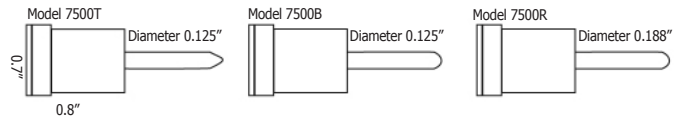
All specifications subject to change without notice. DataTrace is a registered trademark and Micropack III is a trademark of Mesa Laboratories, Inc. All other trademarks and registered trademarks are the sole property of their respective owners.

© Copyright 2011 Mesa Laboratories, Inc.

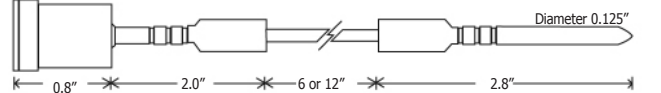


21 CFR Part 11 Compliant

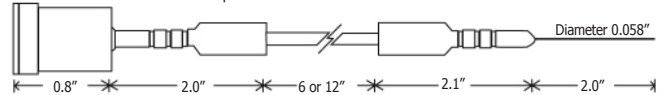
### MPIII Rigid with Taper Tip and Optional Bullet Tips



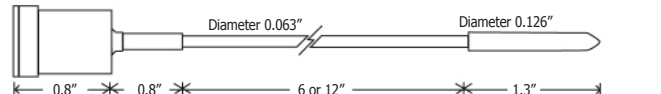
### MPIII Silicone Flex with Taper Tip - Model 7500SFT



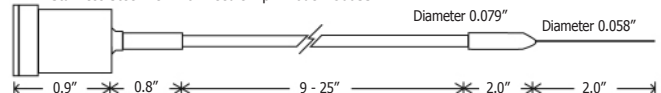
### MPIII Silicone Flex with Needle Tip - Model 7500SFN



### MPIII Bendable TEMP - Model 7500SSB



### MPIII Stainless Steel Flex with Needle Tip - Model 7500SSFN



### MPIII Dual Bendable TEMP - Model 7600SSB



### MPIII Dual Rigid and Stainless Steel Flex - Model 7600T / 7600SSF (T or N)

