Validate your temperature-sensitive products

To control product quality, you have to control the process. For many manufacturing, storing, shipping and other processes, that requires precise temperature monitoring. DataTrace® Micropack III™ (MPIII) Temperature data loggers deliver. 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.

Adaptable to almost any situation, MPIII Temperature Loggers measure less than an inch (without probe or Thermal Pack, if required). Their small size increases versatility and precision by allowing you to position Loggers very near or inside monitored items.

Control your process, your budget and your time

The DataTrace system requires minimal training to collect, log and use data. 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 for Windows (DTW) software. And automatic downloads, lethality calculations, and graphs save time while reducing overall monitoring costs.

Each MPIII Logger can collect 16,000 data points for exceptional detail for longer processes. Data is logged into DataTrace's highly secure, FDA 21 CFR Part 11 compliant DTW software and reported in any format you require. Password protected access, electronic signatures and automatic documentation for audit trails streamline your work. You can even synchronize multiple Micropack III Loggers (in any combination of Logger types) to the same clock...something disparate systems can't do. It's about control. Yours.

Business benefits

- Accurate data to help you optimize food, pharmaceutical and other manufacturing processes to improve products, ensure quality, and save time and money
- Highly precise measurements over a wide range of your process applications to improve control and ensure your products' safety and integrity
- Intuitive, easy-to-use software improves your ability to meet regulatory requirements, secure data, and simplify reporting requirements
- Collect up to 16,000 NIST-traceable data points to obtain more precise information on your process
- A single, integrated solution which can be extended to simplify data logging of an array of process parameters to save you time and money
- Expert, single-source support from the company that originated high-quality wireless data logging

Three models ensure precise monitoring across broad temperature change

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
- Process equipment and sterilization
- Product handling and storage
- Textile manufacturing
- Thermal processing for electronic, chemical, aerospace and other industries

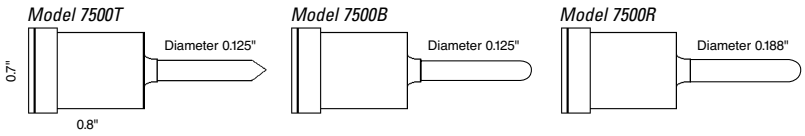
DATATRACE®

MPIII Temperature Logger family provides flexibility for virtually any temperature monitoring task.

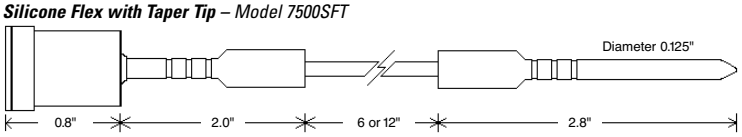
Features/Options	Temp Logger Dual Temp Logger	HiTemp Logger	HiTemp EXT Logger
Probe Type	Rigid Flex	Flex only	Flex only
Rigid Probe Lengths	1", 1.5", 2", 3", 4" or 5"	N/A	N/A
Flex Probe Types	Silicone (exc. Dual) Stainless steel	Stainless steel only	Stainless steel only
Flex Probe Tips	Taper Tip Needle Tip	Taper Tip Needle Tip	Taper Tip only
Flex Probe Lengths	6" or 12"	Consult your Rep	Consult your Rep
Sensor Element	Thermistor RTD (exc. Dual)	Thermistor only	RTD only
Accessories	Consult your Rep	Consult your Rep	Consult your Rep

Please note: All Loggers ship fully assembled as ordered. To maintain system calibration, Logger components are not interchangeable.

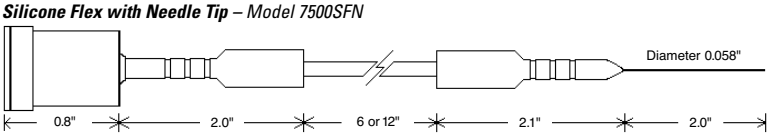
MPIII Rigid with Taper Tip and Optional Bullet Tips



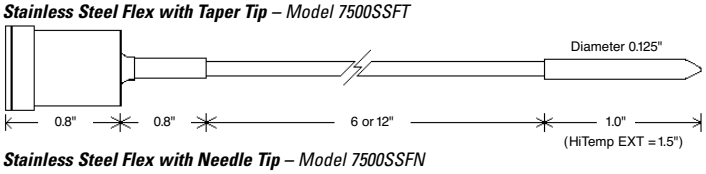
MPIII Silicone Flex with Taper Tip – *Model 7500SFT*



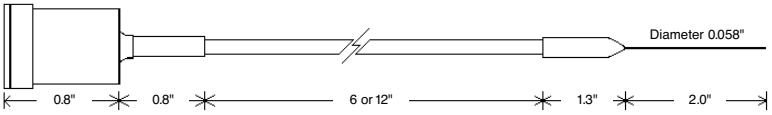
MPIII Silicone Flex with Needle Tip – *Model 7500SFN*



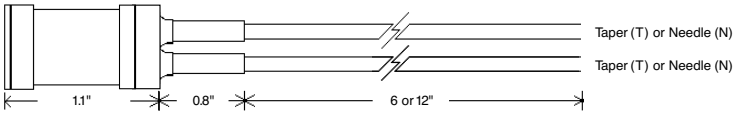
MPIII Stainless Steel Flex with Taper Tip – *Model 7500SSFT*



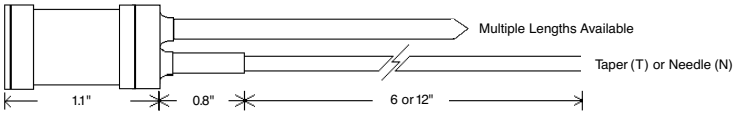
MPIII Stainless Steel Flex with Needle Tip – *Model 7500SSFN*



MPIII Dual Stainless Steel Flex – *Model 7600SSF (T or N)*



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



You can't beat the system

All DataTrace Loggers require a PC Interface System, which includes robust DataTrace for Windows software, an interface module and cable. The DTW software operates with any combination and number of DataTrace Temperature, HiTemp, HiTemp EXT, Humidity, Pressure and 4–20mA Loggers. So instead of dealing with the expense and confusion of disparate monitoring systems, users can **monitor, log and analyze data for multiple process parameters using a single integrated, powerful and complete solution.** *This makes DataTrace unique in the industry.*

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.

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Form 469 Rev C

21 CFR Part 11 Compliant

Operating Parameters

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 +/- 0.1°C (+/- 0.2°F)

MPIII HiTemp* +/- 0.5°C (+/- 0.9°F)

MPIII HiTemp EXT* +/- 0.25°C (+/- 0.45°F); <200°C (392°F)
+/- 0.5°C (+/- 0.9°F); ≥200°C (392°F)

Operating pressure (for all 3 models)

Up to 10 BAR

**HiTemp & HiTemp EXT Loggers require a Thermal Pack for use above +140°C.*

Physical

Size
Width: 0.7 in. (18mm) x Length: 0.8 in. (20mm)**

Weight
0.5 oz. (15 grams)**

Material
316 stainless steel and sapphire IR windows

***Size and weight are shown for Logger body only.*

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)
ISO/IEC 17025-2005

Minimum System Requirements

PC Requirements
Windows 2000 or XP operating system
40 MB of free hard disk space
1 free USB port
CD ROM drive, mouse

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