

## Monitor heat, cold and everything in-between

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 Tracers provide accurate data over a wide range with remarkable ease.

Adaptable to almost any situation, MPIII Temperature Tracers measure less than an inch (without probe or Thermal Pack, if required). Their small size increases versatility and precision by allowing you to position Tracers 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 Tracers have no wires or cables, setup is fast and simple. Field calibration and battery changes are easy and Tracers can be programmed in seconds using a PC and intuitive DataTrace for Windows (DTW) software. And automatic downloads and graphs save time while reducing overall monitoring costs.

Each MPIII Tracer 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 Tracers (in any combination of Tracer 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 Tracer 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
- ▶ Process equipment and sterilization
- ▶ Product handling and storage
- ▶ Textile manufacturing
- ▶ Thermal processing for electronic, chemical, aerospace and other industries

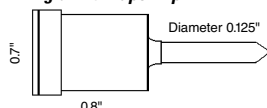


**MPIII Temperature Tracer family provides flexibility for virtually any temperature monitoring task.**

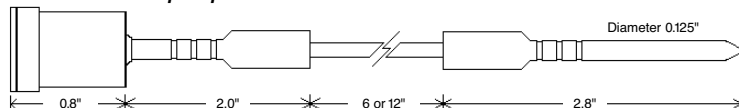
Features/Options	Temp Tracer	HiTemp Tracer	HiTemp EXT Tracer
Probe Type	Rigid Flex	Flex only	Flex only
Rigid Probe Lengths	1", 1.5", 2", 3", 4" or 5"	N/A	N/A
Flex Probe Types	Silicone Stainless steel	Stainless steel only	Stainless steel only
Flex Probe Tips	Taper Tip Needle Tip	Taper Tip Needle Tip	Taper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

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

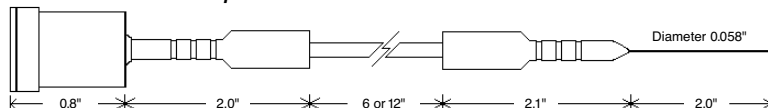
## MPIII Rigid with Taper Tip



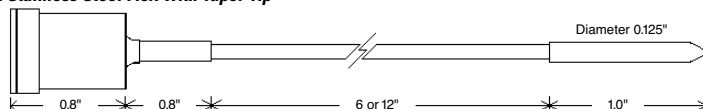
## MPIII Silicone Flex with Taper Tip



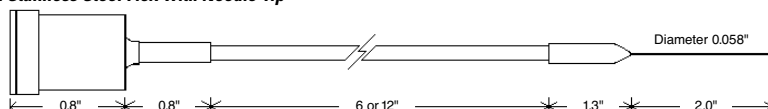
## MPIII Silicone Flex with Needle Tip



## MPIII Stainless Steel Flex with Taper Tip

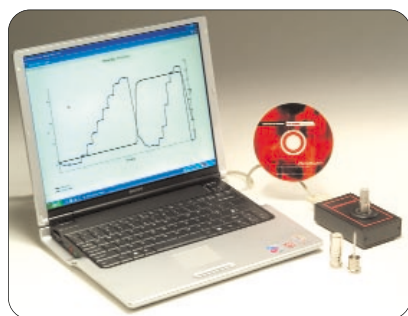


## MPIII Stainless Steel Flex with Needle Tip



## You can't beat the system

All DataTrace Tracers require a **PC Interface System**, which includes robust DataTrace for Windows software, an interface module and a serial cable. The DTW software operates with any combination and number of DataTrace Temperature, HiTemp, HiTemp EXT, Humidity, Pressure and 4–20mA Tracers. 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.*



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Form 469 Rev A

21 CFR Part 11  
Compliant



## Operating Parameters

### Operating temperatures

MPIII 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 +/- 0.1°C (+/- 0.2°F)

MPIII HiTemp\* +/- 0.5°C (+/- 0.9°F)

MPIII HiTemp EXT\* +/- 0.25°C (+/- 0.45°F)

### Operating pressure (for all 3 models)

Up to 10 BAR

\*HiTemp & HiTemp EXT Tracers 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 Tracer 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 only)

### Battery type

Lithium (field-replaceable)

### Clock accuracy

26 seconds per 24 hours

### Certifications

CENELEC (for intrinsic safety)

## Minimum System Requirements

### PC Requirements

Pentium 133 MHz

Windows 9x, ME, NT4.0, 2000,

or XP operating system

32 MB RAM

20 MB of free hard disk space

1 free serial or USB port

(USB serial adapter must be pre-installed)

CD ROM drive, mouse

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