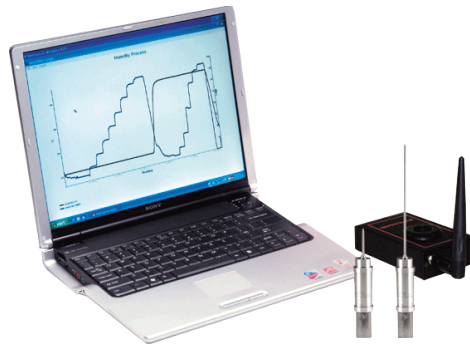


# MPRF Temperature Data Logger

Adaptable to almost any situation, the MPRF Temperature data logger's small size increases versatility and precision by allowing you to position the data logger very near or inside your target products.

- Wireless Temperature Data Loggers
- Real-Time Data
- 8,000 NIST-Traceable Data Points
- Compact Size
- FDA 21 CFR Part 11 compliant
- Intrinsically Safe

Each MPRF logger can collect 8,000 data points for exceptional detail for longer processes. Collected data is visible from one of several real-time displays or logged into DataTrace RF's highly secure, FDA 21 CFR Part 11 compliant DT Pro 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 MPRF Loggers (in any combination of logger types) to the same clock; something disparate systems can't do.



## Ensure precise monitoring across broad temperature changes within various industries and applications such as:

- Smokehouses
- Pasteurizers
- Lyophilizers
- Sterilizers
- Freezers
- Incubators
- Autoclaves
- Cooking and drying tunnels

## Product Specifications

### Operating Temperature:

-80°C to +140°C (-112°F to +284°F)\*

### Temperature Accuracy:

-80°C to -40°C (-112°F to -40°F):  $\pm 0.3^{\circ}\text{C}$  ( $\pm 0.5^{\circ}\text{F}$ )

-40°C to +140°C (-40°F to +284°F):  $\pm 0.1^{\circ}\text{C}$  ( $\pm 0.2^{\circ}\text{F}$ )

### Operating Pressure:

Up to 10 BAR

### Wireless Range:

100 feet (30 meters) Line of Sight

### Radio Frequency:

2.4 GHz ISM Band

### Physical

#### Size:

Width: 0.89 in (22mm)

Length: 3.6 in (91mm)\*\*

#### Weight:

3.1 oz (89 grams)\*\*

#### Material:

316 stainless steel and ULTEM or PCTFE

### Mechanical

#### Calibration:

Factory calibrated (NIST traceable) Field Calibration

#### Battery Type:

AA Lithium (field-replaceable)

#### Battery Life:

6 months to 1 year (depending on usage)

#### Clock accuracy:

10 seconds per 24 hours (25°C)

#### Certifications:

ATEX (for intrinsic safety)

FCC Class B digital device (part 15 compliant)

### Monitoring Parameters

#### Memory:

8,000 time/temperature observations

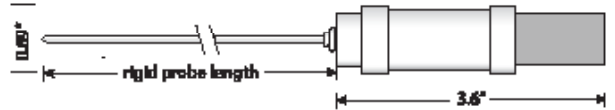
#### Sample rates:

Operator programmable

- 5 sec. to 10 min. interval with radio
- 1 sec. to 10 min. interval without radio

\*Operation below -40°C requires a special calibration.

\*\*Body only.



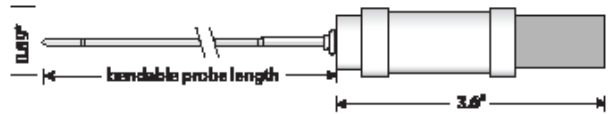
Probes available in the following lengths:

**Rigid:** 2" (51 mm), 3" (76 mm), 4" (102 mm), 5" (127 mm), 6" (152 mm)

Rigid probe diameter: 0.125"/3.2mm

**Bendable:** 10" (250 mm), 14" (350 mm), 25" (650 mm)

Bendable probe diameter: 0.079"/2mm



## Complete Monitoring System

All MPRF Loggers require an Interface/Host System, which includes robust DT Pro software, an interface/host module and cable.

The DT Pro software operates with any combination and number (up to 250) of DataTrace Temperature, Humidity and Pressure Loggers. So instead of dealing with the expense and confusion of disparate monitoring systems, users can validate, monitor, log and analyze data for multiple process parameters using a single integrated, powerful and complete solution.

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21 CFR Part 11 Compliant