

DataTrace[®] RF

Micropack Radio Frequency Temperature Data Logger

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
- FDA 21 CFR Part 11 compliant software

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

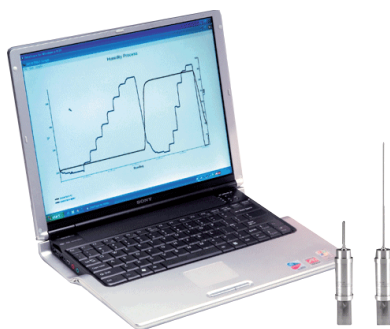


MPRF Temperature Data Logger



DT Pro Software

DataTrace RF's highly secure, FDA 21 CFR Part 11 compliant DT Pro software offers reports 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.



- View real-time data collection
- Customize reports
- Automatically download data and create graphs
- Password protected access
- Electronic signatures
- Automatic documentation



Product Specifications

Operating Temperature:

-80°C to +140°C (-112°F to +284°F)*
HiTemp***: +100°C (+212°F) to +360°C (+680°F) w/Thermal Pack
HiTemp EXT***: -20°C (-4°F) to +400°C (+752°F) w/Thermal Pack

Temperature Accuracy:

-80°C to -40°C (-112°F to -40°F): ±0.3°C (±0.5°F)
-40°C to +140°C (-40°F to +284°F): ±0.1°C (±0.2°F)

Resolution: 0.001°C

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: 0.91 in (23.2mm)

Length: 3.7 in (94mm)**

Weight: 2.3 oz (66 grams)**

Material: 316 stainless steel and ULTEM or PCTFE

Probe Diameter:

Rigid probe diameter: 0.125"/3.2mm or .188" (4.76mm) available

Bendable probe diameter: 0.079"/2mm

Sensor Elements

Temperature: PT1000 Class A RTD

Mechanical

Calibration: Factory calibrated (NIST traceable) or Field Calibration

Battery Type: AA Lithium (field-replaceable)

Battery Life: 6 months to 1 year (depending on usage)

Battery Weight:

Standard Temperature Battery: 0.6 oz (17 grams)

Low Temperature Battery: 0.67 oz (19 grams)

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:

8,192 time/temperature observations or 16,384 observations in compressed data mode.

Sample rates:

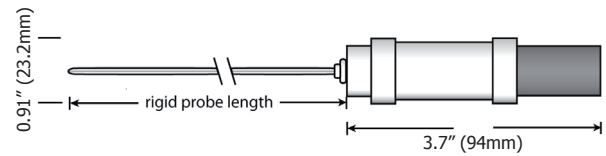
Operator programmable

- 5 sec. to 1 hr interval with radio
- 1 sec. to 1 hr interval without radio

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

**Body only.

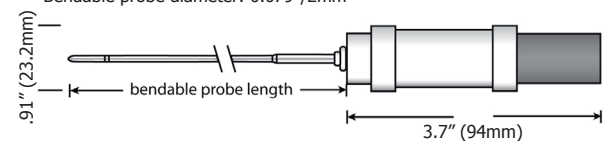
***Thermal Packs required above +140°C



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 or .188" (4.76mm) available

Bendable: 10" (254 mm), 14" (355.6 mm), 25" (635 mm)
Bendable probe diameter: 0.079"/2mm



Complete Monitoring System

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

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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CE 21 CFR Part 11 Compliant

