

# MPRF Pressure Data Logger

A recent addition to the complete DataTrace RF Data Logging System, the MPRF Pressure Data Logger requires minimal training and features batch programming for fast and simple set up. It captures precise detail by collecting 8,000 data points - 4,000 each for pressure and temperature readings - and can be synchronized to the same clock with multiple MPRF loggers in any combination of logger type.

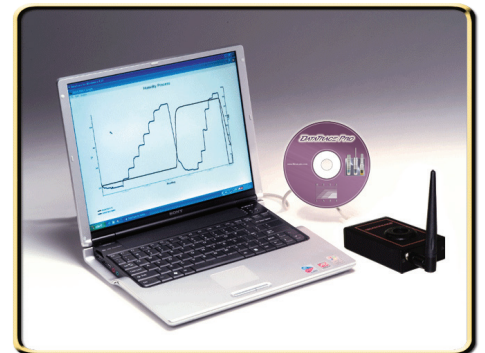
- Wireless Pressure Data Loggers
- Real-Time Data
- 8,000 NIST-Traceable Data Points
- Compact Size (4.6" x 0.9")
- FDA 21 CFR Part 11 compliant
- Intrinsically Safe

## Precision under pressure

Each MPRF Pressure Data 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.

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

- Foods, canning and newer cooking pouches
- Beverages, including wine and soda production
- Pharmaceuticals, including autoclaves and EtO sterilization
- Monitoring and testing compressed gas systems
- Pressurized process reactors and streams



# MPRF Pressure Data Logger

## Product Specifications

**Operating Temperature:**  
+25°C to +140°C (+77°F to +284°F)

**Temperature Accuracy:**  
± 0.25°C (± 0.45°F)

**Operating Pressure:**  
0 PSIA (0 BAR) to 72.5 PSIA (5 BAR)

**Pressure Accuracy:**  
± 0.3 PSIA (± 0.02 BAR)

**Wireless Range:**  
100 feet (30 meters) Line of Sight

**Radio Frequency:**  
2.4 GHz ISM Band

### Physical

**Size:**  
Width: 0.9 in (22.9mm)  
Length: 4.6 in (120mm)

**Weight:**  
4.2 oz (120 grams)

**Material:**  
316 stainless steel and ULTEM or PCTFE

### Sensor Elements

**Temperature:** RTD  
**Pressure:** Strain gauge bridge

### Mechanical

**Calibration:**  
Factory calibrated (NIST traceable)

**Battery Type:**  
Lithium (field-replaceable)

**Clock accuracy:**  
26 seconds per 24 hours

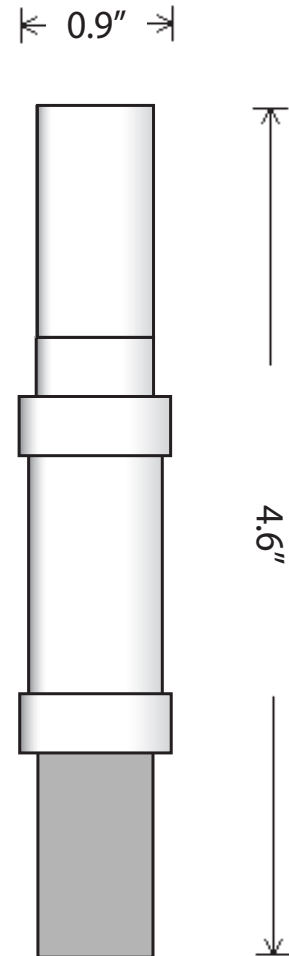
**Certifications:**  
ATEX (for intrinsic safety)  
FCC Class B digital device (part 15 compliant)

### Monitoring Parameters

**Memory:**  
4,000 time/temperature observations and 4,000 time/pressure observations

**Sample rates:**  
Operator programmable

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



## 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.

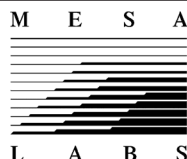
This makes DataTrace RF unique in the industry.

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21 CFR Part 11 Compliant



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