

# MPRF Humidity Data Logger

## DataTrace® RF

Micropack Radio Frequency Humidity Data Logger

For processes that are sensitive to humidity, even small changes can dramatically affect product production, storage and shipping. To achieve optimal conditions, you need precise humidity data. With the MPRF Humidity Data Logger, you get it.

- Real-Time Data
- 18 Point Humidity NIST Traceable Calibration
- 10 Point Temp NIST Traceable Calibration
- FDA 21 CFR Part 11 Compliant Software
- Intrinsically Safe



MPRF Humidity Data Logger

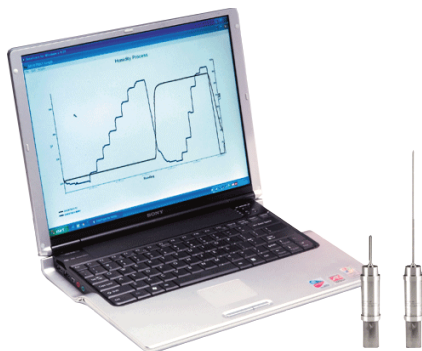
The MPRF Humidity Data Logger provides accurate data to help you optimize food, pharmaceutical and other manufacturing processes. The closer the sensor is to the product, and the sooner you can view the collected data, the more valuable the data is. Depending on the application, the sensors can be mounted internally or externally. Our wireless data logger easily fits inside a variety of packages to maximize accuracy and process validation. And since it is wireless and operates at low voltage, it is intrinsically safe for hazardous environments.

### Smaller is better, and more accurate

Rather than mounting externally like most loggers, our wireless data logger easily fits inside a variety of packages, like an ethylene oxide ER pack during sterilization, to maximize accuracy. Memory for up to 8,000 data points – 4,000 each for humidity and temperature readings – provides exceptional detail even for longer processes. And since it is wireless and operates at low voltage, it is intrinsically safe in hazardous environments.

### DT Pro Software

Part of a total solution, the MPRF Humidity Logger works with DataTrace RF's, highly secure, FDA 21 CFR Part 11 compliant DT Pro software. No system gives you more flexibility. For example, you can synchronize multiple loggers (in any combination of types) to one clock.



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

# MPRF Humidity Data Logger

## Product Specifications

**Operating Temperature:**  
0°C to +85°C (32°F to +185°F)  
**Temperature Accuracy:**  
± 0.1°C (±.2°F)  
**Operating Humidity:**  
0% to 100% RH (non-condensing)  
**Humidity Accuracy:**  
±2% RH non-condensing (±5% RH in EtO)  
**Resolution:**  
0.01% RH  
**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: 5.7 in (142.5mm)  
**Weight:**  
4.0 oz (114 grams)  
**Material:**  
316 stainless steel and ULTEM

### Sensor Elements

**Temperature:**  
Thermistor  
**RH:**  
Capacitive Polymer

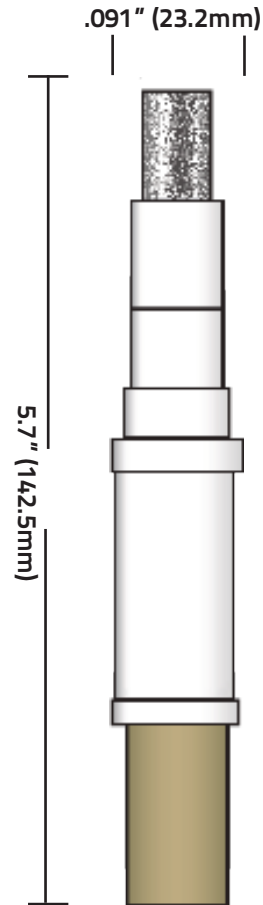
### Mechanical

**Calibration:**  
Factory calibrated (NIST traceable)  
**Battery Type:**  
1/2 AA or Full AA Lithium (field-replaceable)  
**Battery Life:**  
6 months to 1 year (depending on usage)  
**Battery Weight:**  
0.6 oz (17 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:**  
4,096 time/temperature/humidity observations and 8,192 in compressed data mode  
**Sample rates:**  
Operator programmable

- 5 sec. to 1 hr interval with radio
- 1 sec. to 1 hr 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.

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