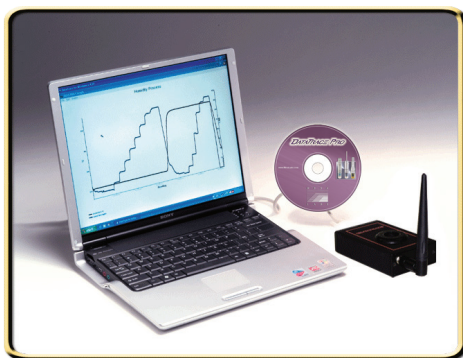# MPIII Humidity Data Logger

For processes that are sensitive to humidity, even small RH changes can dramatically affect product production, storage and shipping. The highly accurate MPIII Humidity Logger monitors RH across the full range, from 0% to 100% at temperatures from 10°C (50°F) to 85°C (185°F).

- Wireless Humidity Data Loggers
- Accurate Across Full RH Range
- 16,000 NIST-Traceable Data Points
- FDA 21 CFR Part 11 Compliant
- Intrinsically Safe

Collect and log accurate RH data in varied industries and situations, including:

- Pharmaceuticals, including incubator validation and production area monitoring
- EtO Sterilization
- Sterilizer validation
- Food production, including foods that are dried, such as pasta
- Growing environments where maintaining specific humidity is essential
- Monitoring products during shipping

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 16,000 data points - 8,000 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.

At the heart of the solution is DataTrace's intuitive and highly secure, FDA 21 CFR Part 11 compliant DataTrace software. You can't beat it for flexibility and ease. Create reports in any format you want. Save time and money with automatic downloads and graphs. Use password protected access, electronic signatures and automatic documentation for audit trails to streamline your work. Even synchronize multiple Loggers (in any combination of Logger types) to the same program.

Product Specifications

MPIII Humidity Data Logger

Operating Temperatures

+10°C to +85°C (+50°F to +185°F)

Temperature Accuracy:

± 0.1°C (±.2°F)

Operating Humidity:

0% to 100% RH (non-condensing)

Humidity Accuracy:

±2% RH, 0% to 100% non-condensing at +25°C and +55°C

(±5% RH in EtO)

Physical

Size:

Width: 0.7 in (18mm)

Length: 2.6 in (66mm)

Weight:

1.7 oz (48 grams)

Material:

316 stainless steel; Sapphire IR windows

Sensor Elements

Temperature: Thermistor

Humidity: Capacitive polymer

Mechanical

Calibration:

Factory calibrated (NIST traceable) RH field calibration ±3% RH accuracy

Battery Type:

Lithium (field-replaceable)

Clock accuracy:

26 seconds per 24 hours
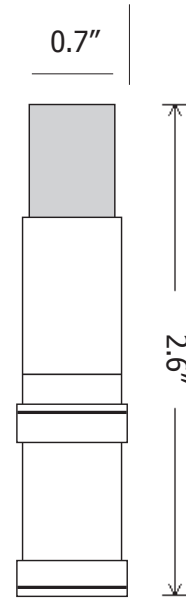
Certifications:

ATEX (for intrinsic safety)

Monitoring Parameters

Memory:

8,000 time/temperature observations and 8,000 time/humidity observations

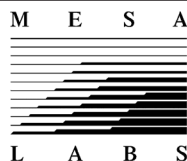**Sample rates:**

Operator programmable 1 sec. to 18 hr. intervals

0.7"

2.6"

CE ⟨Ɛx⟩   21 CFR Part 11 Compliant