

Full-range Micropack III Humidity Tracer fits in where other sensors can't

For processes that are sensitive to humidity, even small RH changes can dramatically affect product production, storage and shipping – impacting everything from production time to product quality to cost. To achieve optimal conditions, you need precise humidity data. With the DataTrace® Micropack III™ (MPIII) Humidity Tracer, you get it.

The highly accurate MPIII Humidity Tracer monitors RH across the full range, from 0% to 100% at temperatures from 10°C (50°F) to 85°C (185°F). To ensure the best accuracy in the industry, we calibrate the humidity of our MPIII Tracer at 25°C and 55°C. While food processes such as drying pasta certainly benefit from this high standard, this is especially critical to RH-sensitive pharmaceutical applications such as EtO sterilization and microbial incubation.

Smaller is smarter... and more accurate

The closer the sensor is to the product, the more valuable the reading. That's one reason the MPIII Humidity sensor is so small. Rather than mounting externally like most sensors, 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 for hazardous environments.

Part of a total solution, the MPIII Humidity Tracer works with DataTrace's popular, highly secure, FDA 21 CFR Part 11 compliant DataTrace for Windows software. No system gives you more flexibility. For example, you can synchronize multiple Tracers (in any combination of types) to one clock. Program Tracers in seconds. Automatically download data and create graphs. Customize reports. Compare data from up to ten Tracers on one page. And streamline your work with password access, electronic signatures and automatic documentation for audit trails. It's a perfect fit.

Business benefits

- ▶ Accurate data to help you optimize food, pharmaceutical and other manufacturing processes to improve products, ensure quality, and save time and money
- ▶ Highly precise measurements over a wide range of your process applications to improve control and ensure your products' safety and integrity
- ▶ Intuitive, easy-to-use software improves your ability to meet regulatory requirements, secure data, and simplify reporting requirements
- ▶ Collect up to 16,000 NIST-traceable data points to obtain more precise information on your process (8,000 temperature and 8,000 humidity)
- ▶ A single, integrated solution which can be extended to simplify data logging of an array of process parameters to save you time and money
- ▶ Expert, single-source support from the company that originated high-quality wireless data logging

DataTrace MPIII Humidity Tracer

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

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



Operating Parameters

Operating temperature
+10°C (+50°F) to +85°C (+185°F)

Operating humidity
0% to 100% RH, non-condensing

Temperature accuracy
+/- 0.1°C (+/- 0.2°F)

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

Physical

Size
Width: 0.7 in. (18 mm) x Height: 2.6 in. (66 mm)

Weight
1.7 oz. (48 grams)

Material
316 stainless steel and sapphire IR windows

Sensor Elements
Temperature: Thermistor
Humidity: Capacitive polymer (field-replaceable)

Monitoring Parameters

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

Sample Rates
Operator programmable (1 sec. to 18 hr. intervals)

Mechanical

Calibration
Factory calibrated (NIST traceable)
RH field calibration to +/- 3% RH accuracy

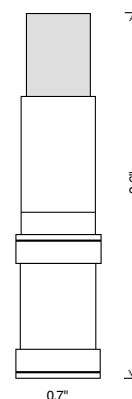
Battery Type
Lithium (field-replaceable)

Clock Accuracy
26 seconds per 24 hours

Certifications
CENELEC (for intrinsic safety)

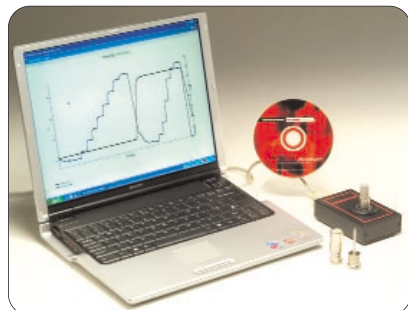
Minimum System Requirements

PC Requirements
Pentium 133 MHz
Windows 9x, ME, NT4.0, 2000,
or XP operating system
32 MB RAM
20 MB of free hard disk space
1 free serial or USB port
(USB serial adapter must be pre-installed)
CD ROM drive, mouse



You can't beat the system

All DataTrace Tracers require a **PC Interface System**, which includes robust DataTrace for Windows software, an interface module and a serial cable. The DTW software operates with any combination and number of DataTrace Temperature, HiTemp, HiTemp EXT, Humidity, Pressure and 4–20mA Tracers. So instead of dealing with the expense and confusion of disparate monitoring systems, users can **monitor, log and analyze data for multiple process parameters using a single integrated, powerful and complete solution.** *This makes DataTrace unique in the industry.*



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Form 470 Rev A

21 CFR Part 11
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