

Get the inside track on accurate pressure monitoring

Controlling a manufacturing process requires accurate monitoring. And for that, your logger must be close to the product being monitored, especially in food processing where one container is inside another.

The ultra-small DataTrace® Micropack III™ (MPIII) Pressure Logger gets it right. With a body measuring just 1.8 inches long, MPIII Pressure data loggers fit inside containers to get pressure readings from 0 PSIA (0 BAR) to 150 PSIA (10 BAR) with exceptional accuracy of +/- 0.3 PSIA (+/- 0.02 BAR) at temperatures ranging from 10°C (50°F) to 140°C (284°F). With their wide range and high precision, MPIII Pressure Loggers are not only well suited to canning and pouch processes, but an array of applications where pressure affects products and quality.

Exceptional performance under pressure

Part of DataTrace's comprehensive solution, the wireless MPIII Pressure Logger requires minimal training to use. Features like IR communication and batch programming in just seconds make setup fast and simple. And it can collect up to 16,000 data points – 8,000 each for pressure and temperature readings, allowing for exceptional detail.

At the heart of the solution is DataTrace's intuitive and highly secure, FDA 21 CFR Part 11 compliant DataTrace for Windows 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. When the pressure is on, this is the system you need.

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 pressure)
- ▶ 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 Pressure Logger

Collect and log accurate pressure data in industries and situations, such as:

- ▶ Foods, including conventional 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

DATA TRACE®



Operating Parameters

Operating temperature
+10°C (+50°F) to +140°C (+284°F)

Operating pressure
0 PSIA (0 BAR) to 150 PSIA (10 BAR)

Temperature accuracy
+/- 0.25°C (+/- 0.45°F)

Pressure accuracy
+/- 0.3 PSIA (+/- 0.02 BAR)

Physical

Size
Width: 0.7 in. (18 mm) x Height: 1.8 in. (46 mm)

Weight
1.5 oz. (42 grams)

Material
316 stainless steel and sapphire IR windows

Sensor elements
Temperature: Thermistor
Pressure: Strain gauge bridge

Monitoring Parameters

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

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

Mechanical

Media
Compatible with air and fluids, including many corrosive liquids

Calibration
Factory calibrated (NIST traceable)

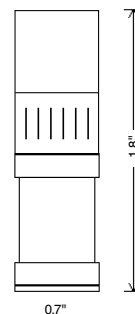
Battery Type
Lithium (field-replaceable)

Clock Accuracy
26 seconds per 24 hours

Certifications
ATEX (for intrinsic safety)
ISO/IEC 17025-2005

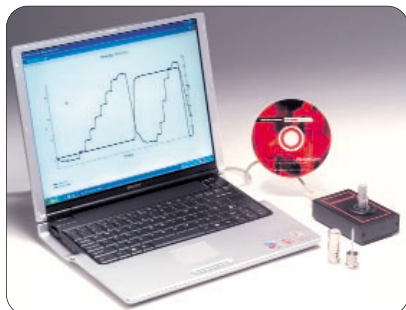
Minimum System Requirements

PC Requirements
Windows 2000 or XP operating system
40 MB of free hard disk space
1 free USB port
CD ROM drive, mouse



You can't beat the system

All DataTrace Loggers require a **PC Interface System**, which includes robust DataTrace for Windows software, an interface module and cable. The DTW software operates with any combination and number of DataTrace Temperature, HiTemp, HiTemp EXT, Humidity, Pressure and 4–20mA Loggers. 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.*



DATA TRACE[®]

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21 CFR Part 11
Compliant

