DATATRACE®
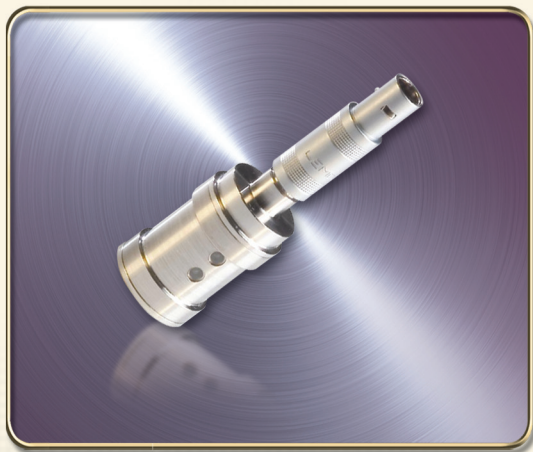
Monitor any parameter on a 4–20 mA circuit with ease

Monitoring your manufacturing process or equipment requires flexibility. You need a data logging system that is capable of measuring any parameter at any time with a high degree of accuracy and reliability.

The DataTrace Micropack III (MPIII) 4-20 mA Tracer is the solution to your flexible data logging needs. Now, you can measure and record any parameter with ease using the DataTrace 4-20 mA Tracer, whether it is in a manufacturing process or on a piece of laboratory equipment.

Unmatched flexibility and ease of use

Unique to the Micropack III 4-20 mA data logger, is its ease of use. Simply install the docking station permanently in your standard 4-20 mA circuit. Then, anytime you need to log the data on the loop, program the Tracer, plug it into the docking station and start recording. There are no wires to install and no need to break your 4-20 mA circuit. The loop continuity is maintained whether the Tracer is installed or not.

The Micropack III 4-20 mA data logger can be utilized to record almost any parameter. And because it works with the same software as other DataTrace Micropack III Tracers, users can employ one system to analyze and report on multiple process parameters individually or together. For greater accuracy, all Micropack III sensors being used, regardless of what each is measuring, can be synchronized to the same clock – something disparate systems can't offer.

Part of DataTrace's comprehensive solution, the wireless MPIII 4-20 mA Tracer requires minimal training to use. Features like rapid IR communication and batch programming in just seconds make setup fast and simple.

At the heart of the solution is DataTrace's intuitive and highly secure FDA 21CFR Part 11 compliant DataTrace for Windows software. You can't beat it for flexibility and ease of use. Save time and money with advanced reporting and graphing capability. Use password protected access, electronic signatures and automatic documentation for audit trails to streamline your work. Even synchronize multiple Tracers (in any combination of Tracer types) to the same program.

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 8,000 NIST-traceable data points to obtain more precise information on your process.

- 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 4–20 mA Tracer

Collect and log accurate data for any parameter in industries and situations, such as:

- Ethylene Oxide concentration in medical device sterilization.

- CO_2 concentration in foods and beverage.

- CO_2 concentration in incubators or other chambers for validation studies and quality control.

- pH in fermentation operations and food applications.

- Air speed in drying or wind tunnel applications.

M E S A
L A B S

DataTrace®

Product Specifications

4-20 mA Tracer

Operating Parameters

Measurement range	0 to 24 mA
Measurement accuracy	± 0.01 mA
System resistance	Docking Station Only – 200 Ω With Tracer Installed – 100 Ω
Operating environment	0ºC (32ºF) to 100ºC (212ºF) Non-condensing atmosphere Non-immersable, not intended for flammable or corrosive environments

Physical

Size	Width: 0.7 in. (18mm) Length: 2.5 in. (63mm) (Tracer Only)
Material	316 stainless steel, PEEK, gold and sapphire IR windows
Docking Station	Standard 50mm DIN Rail

Mechanical

Battery type	Lithium (field-replaceable)
Clock accuracy	26 seconds per 24 hours
Accessories	Docking Station (DIN Rail adapter) Wire lead adapter

Monitoring Parameters

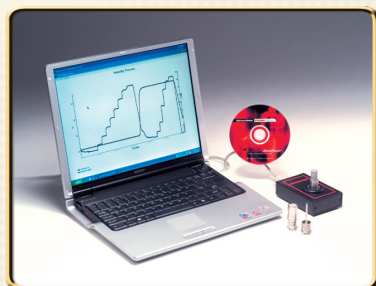|	
Memory	8000 mA measurements
Sample rates	*Operator programmable (1 sec. to 18 hr. intervals)*

Minimum System 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)
- 1 CD ROM drive, mouse

Tracer installed in Docking

Docking Station and wire lead adapter

Complete monitoring 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.

21 CFR Part 11
Compliant

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MESA LABS