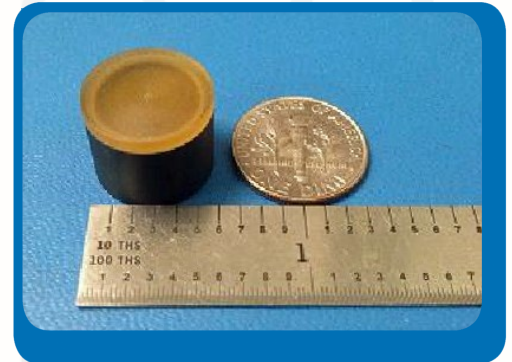


## Micro-T™ Miniature RFID Data Logger System

### + MICRO-T™ RFID DATA LOGGER FEATURES AND BENEFITS:

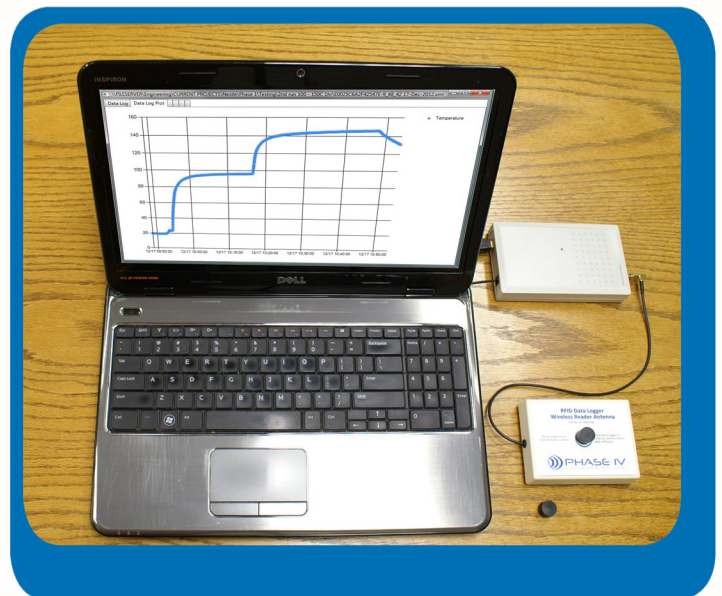
- **Micro Miniature** — small size and low mass enables accurate readings with minimal thermal impact on sensed environment.
- **Food Safe**—enclosure is made with FDA approved plastic and is safe to use in food and chemical process monitoring.
- **Wireless interface**—enables the Micro-T to be sealed & submersible.
- **Wide Temperature Range** — High Temp Version: 10°C to 140 °C. Standard Version: 10°C to +85°C.
- **Accurate**— standard version  $\pm 1.0^{\circ}\text{C}$ ;  $\pm 0.5^{\circ}\text{C}$  also available.
- **High Pressure Operation**— in gas or liquid up 200 PSI (1200 PSI version available).
- **Long Battery Life**— ~64 one-hour runs with one second sample rate.
- **User-configurable**—sampling rates from 1 second to 48 hours.
- **High Number of Records**—stores 3,902 time stamped records.
- **Real Time Clock**— accurate time—temperature correlation.
- **Simple Desktop Wireless “Reader”** connects to PC with a USB cable.
- **Software** downloads data, stores in CSV or XML file, and graphs results.



Questions?  
Need a Custom Solution?

866-608-6168

[Sales@PhaseIVengr.com](mailto:Sales@PhaseIVengr.com)



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## Micro-T™ RFID Data Logger—Specifications

Part Numbers:	Standard Temp Range: <b>41-100332-01</b> High Temp Range: <b>41-100332-02</b> High Pressure/High Temp Version: <b>41-100332-03</b>
Material:	Ultem plastic enclosure FDA approved for contact with food. PEEK is available. Smooth exterior surfaces. Not for use with antifreezes or other chemicals incompatible with Ultem.
Size:	17.0 mm (0.60")* diameter x 12.0 mm (0.47") long.
Weight and Density	Weight = 2.8 grams. Density = 1.3 g/cm <sup>3</sup> (Close to water).
Pressure Survival:	Can survive and operate in gas or liquid up to 200 PSI. 1200 PSI version available upon special order. (Available in High Temperature version only).
Temperature Measurement Range:	High Range Version: 10°C to 140°C (68°F to 284°F) Standard Range Version: 10°C to 85°C (-4°F to 185°F)
Temperature Accuracy & Resolution <i>* High Accuracy Version available.</i>	High Temp Version: ± 1°C (± 0.5°C*) from 90°C to 140°C. ± 2°C from 10°C to 90°C. (± 2°F from 194°F to 284°F. ± 4°F from 50°F to 194°F.) Resolution: .08°C (.15°F) Standard Version: ± 1°C (± 0.5°C*) from 10°C to 50°C. ± 2°C from 50°C to 85°C. (± 2°F from 50°F to 122°F. ± 4°F from 122°F to 185°F.) Resolution: .08°C (.15°F)
Temperature Calibration	Phase IV tests each data logger in accordance with our test procedures using calibrated and NIST traceable reference probe. A certificate of this test is made available for each device.
Temperature Response Time:	10 to 90% time constant: Depends on media; approximately 1.5 minutes in water. Single temperature sensor near center of the unit to emulate the center temperature of a particle.
Sampling Rate Number of Readings:	Sampling rate is configurable from one second to 48 hours. Number of time-stamped readings = 3,902. Each reading has a time stamp. Clock error is less than 2 seconds per day. Time is set by PC clock.
Communication & Data Download:	USB Reader for wireless configuration, start/stop and data download to PC. Data loggers have a unique serial number that is associated with the time & temperature data. Delay start: Set the amount of delay or set specific time and date. Resolution = 1 second.
Battery (Not replaceable)	At a one second sample rate the battery will last a minimum of 250,000 samples at 20°C. A low battery condition in the data logger will be checked when the data logger is started. Recover Mode enables data to be uploaded after the battery dies. Battery has a 1 year shelf life. (Battery life calculator available from Phase IV.)
Warranty	1 year warranty from date of purchase. Standard two week return to factory for repair. Next day replacement warranties are available.
<b>Reader for Micro-T™</b> Data Logger : Part No: 41-100333-00 <b>Reader Antenna:</b> Part No: 41-100334-00	Line powered wall transformer. Reader is connected by USB to the PC. Includes a separate "desktop" pad antenna. Suitable for use in an office or lab environment. Reader is FCC certified. Reader complies with ISO 15693 RFID communication protocol.
<b>Software for Micro-T™</b> Data Logger <b>Part No 51-100167-00</b>	Facilitates starting, stopping, configuring and downloading the data to a Windows 7 PC. Data stored to a CSV or XML file. Graphical User Interface: View time-stamped data in tabular or graphical form – with zoom-in and zoom-out functions.

We specialize in custom solutions. Contact: 866-608-6168 Sales@PhaseIVengr.com

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