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to Quality

# MicroLite

The plug & record USB mini data logger



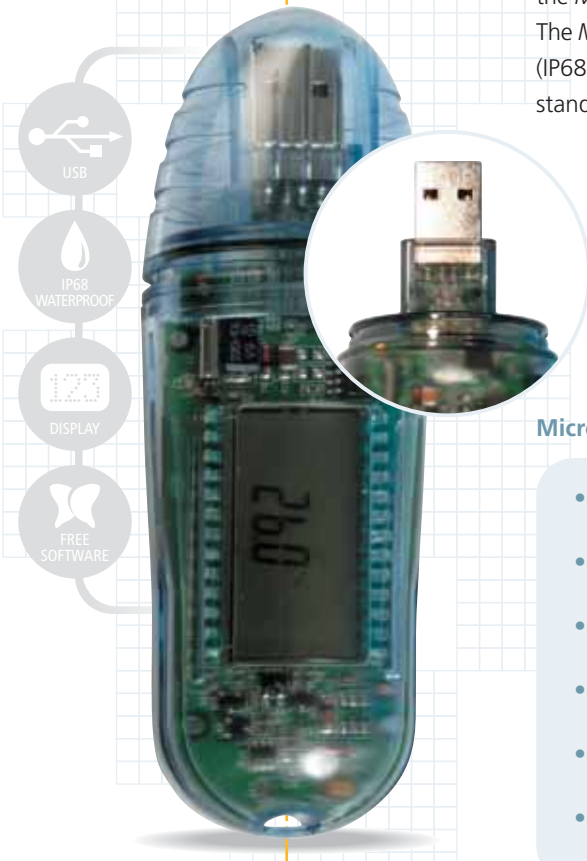
Aesthetic and innovative, *MicroLite* is a small data logger for monitoring and recording temperature. *MicroLite* is the ultimate plug and record data logger. Despite the compact design, *MicroLite* data is clearly displayed on the logger's numeric screen. In addition, the *MicroLite* stored data can be downloaded automatically to the *MicroLab Lite* software. The *MicroLite* has been dustproof and waterproof tested to meet highest market standards (IP68). To further ensure easy global usage, the battery is easily replaceable since it is a standard model used worldwide.

Download for free *MicroLab Lite* Software from [www.fouriersystems.com](http://www.fouriersystems.com) for complete data analysis.

The product is designed for ultimate application accessibility, whether mobile or static. Typical applications for this product include transportation as well as warehousing of food, drugs and hi-tech equipment.

## MicroLite: Portability and transport

- High functionality, multi-trip plug-in logging
- IP68 Standards: Dustproof and waterproof tested
- LCD numeric decimal point display - showing min/max and current values
- Real-time, accurate historical data indicator
- Long battery life and easily replaceable industry standard
- Supports USB 2.0 interface enabling fast track communication
- High resolution 16-bit (0.1 °C) and high accuracy of 0.3 °C
- Large sample memory: Optional 8,000 or 16,000 samples
- Fast sampling rate of once per second
- Range -40 to 80 °C
- Start sampling options: Magnet key, automatic and timer
- Fast automatic data download to graph, table, export to Excel
- Built-in real-time clock and calendar





## Specifications



<b>Internal Sensor</b>	Temp: -40 to 80 °C Standards compliance: > Dust and Waterproof IP68 > Thermal conductor enabling fast response time
<b>Outputs</b>	USB 2.0 communication
<b>Sampling</b>	Resolution: A/D resolution: 16-bit, 0.1°C Capacity: Memory capacity: 8KB, 16KB Sampling rate: 1 per second to 1 per 2 hours Accuracy: 0.3°C
<b>Power Supply</b>	Battery life: > 2 years at 1 sample per minute > Replaceable 3V lithium battery CR2032
<b>Design</b>	Dimensions: > 11 x 3.9 x 2.6 cm > Strap-on capabilities
<b>Weight</b>	45.5 gr

<b>Display</b>	> LCD with decimal point > Visual Alert - Alarm icon when crossing predefined thresholds > Low battery indication
<b>Operation</b>	> Data scroll on the LCD > Reed switch to start measuring
<b>Software</b>	> MicroLab Lite for Windows 2000/XP/Vista > Also available – DatPass 21 CFR Part 11 Standards Compliance Software
<b>Standards Compliance</b>	> CE, FCC compliance > IP68/NEMA6 30 minutes for 0.5m depth
<b>Ordering Information</b>	
<b>Item</b>	<b>Memory</b> <b>P/N</b>
MicroLite .....	8,000 samples ..... LITE5008
MicroLite .....	16,000 samples ..... LITE5016

## MicroLab Lite Software

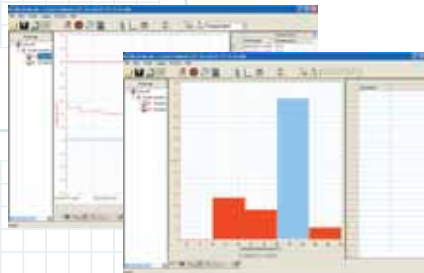
### Setup

MicroLite configuration



### Analysis

Histogram + Statistics



### Output

Table view + Graph alarm + Excel export



### GMT Recording

Setting data recording to meet with GMT - Greenwich Mean Time for use in international environments, particularly export and import.



## MicroLite Case Study



**Company:** Sea Star, Established in 1983  
Ships highly perishable frozen seafood samples to brokers and customers across the United States.

**Challenge:**  
Using correct quantities of frozen gel packs

during shipments. Too few would result in product spoilage, and too many causing excessive air freight charges.

### Requirements:

- A water resistant logger that is compact, accurate, low cost and easy-to-use.
- Data analysis software that could provide detailed analysis of the shipment from origin to destination, allowing Sea Star to optimize its shipping process.

### Solution:

MicroLite: Accurate and reliable temperatures monitoring during shipping

### Result:

Substantial cost savings in air freight, refrigerant packs, and minimized product loss.

### Method:

- MicroLite placed inside insulated shipping boxes with a postage-paid return envelope to Sea Star after shipment delivery.
- The logger is programmed to start when the courier arrives to pick up the package.
- Samples are recorded at 1 minute intervals during the overnight shipment.
- One the logger is returned to Sea Star, data is downloaded for analysis.