

# Data Logger MicroLite

MicroLite USB logger is a vital tool for monitoring and recording a variety of data. Offering a unique plug and record data logger for every application and helping organizations maintain the highest standards throughout the cold chain. Real-time sensor readings with corresponding time stamp are clearly displayed on the logger's LCD screen, incorporating alarm thresholds.

The logger is designed for low power consumption to extend battery life and reduce the time between battery replacements.

## APPLICATIONS

Pharmaceutical  
Wharehousing  
Cold storage  
Cold chain  
Hospitals

## HIGHLIGHTS

USB 2.0  
Dust and water proof  
2-year battery life  
High accuracy sensors with 16-bit resolution  
PDF data report  
High functionality  
Low cost



| Technical characteristics            | LITE5016 & LITE5008<br>Internal Temp   | LITE5032P & LITE5008P<br>Internal Temp | LITE5032P-RH<br>Internal Temp/RH | LITE5032P- 4/20<br>4 to 20 mA | LITE5032P-V<br>0 to 10 V | LITE5032P-EXT<br>External NTC              |
|--------------------------------------|--|--|----------------------------------|-------------------------------|--------------------------|--|
| <b>Range</b>                         | Temp: - 40 to 80 °C                    | Temp: - 40 to 80 °C                    | Temp: - 40 to 80 °C              | 4 - 20 mA                     | 0 - 10 V                 | -50 °C to 150 °C                           |
| <b>Accuracy</b>                      | Temp: 0,3 °C                           | Temp: 0.3 °C                           | Temp: 0.3 °C<br>RH: ± 2%         | 0.5 %                         | ± 0.5 %                  | -50 to 60 °C ±0.3 °C<br>60 to 150 °C ±0.5% |
| <b>Resolution (16-bit)</b>           | 0.1 °C (display)<br>0.06 °C (software) | 0.1 °C (display)<br>0.06 °C (software) | Temp: 0.04 °C<br>(display)       | 1.16 uA                       | 200 uV                   | 0.1 °C (display)<br>0.06 °C (software)     |
| <b>Maximum load</b>                  | N/A                                    | N/A                                    | N/A                              | 30 mA, 5.2 V                  | 5.2 V                    | N/A  |
| <b>Auto PDF &amp; Email delivery</b> | X                                      | √                                      | √                                | √                             | √                        | √  |
| <b>Dew point</b>                     | N/A                                    | N/A                                    | √                                | N/A                           | N/A                      | N/A  |
| <b>LCD display</b>                   | √                                      | √                                      | √                                | √                             | √                        | √  |
| <b>LED alarm indicator</b>           | X                                      | √                                      | √                                | √                             | √                        | √  |
| <b>USB 2.0</b>                       | √                                      | √                                      | √                                | √                             | √                        | √  |

|                                    | LITE5016 & LITE5008<br>Internal Temp                  | LITE5032P & LITE5008P<br>Internal Temp | LITE5032P-RH<br>Internal Temp/RH                 | LITE5032P- 4/20<br>4 to 20 mA | LITE5032P-V<br>0 to 10 V | LITE5032P-EXT<br>External NTC |
|------------------------------------|---|--|--|-------------------------------|--------------------------|-------------------------------|
| <b>Sample memory</b>               | 8,000 and 16,000                                      | 8,000 and 32,000                       | 32,000<br>(16H per channel)                      | 32,000                        | 32,000                   | 32,000                        |
| <b>Sampling rate</b>               | Once per second /<br>once every 2 hours               |  | Once per second / once every 18 hours            |                               |                          |                               |
| <b>Battery type / Battery life</b> | CR2032 3V<br>1.5 years, depending<br>on sampling rate |  | CR2032 3V<br>2 years, depending on sampling rate |                               |                          |                               |
| <b>Operating environment</b>       | - 40 ... 80 °C  |  |  |                               |                          |                               |
| <b>Dimensions (with cap)</b>       | 11 x 3.9 x 2.6 cm                                     |  | 11 x 3.9 x 3 cm                                  |                               | 14 x 3.9 x 2.6 cm        |                               |
| <b>Weight</b>                      | 45.5 g  |  |  |                               |                          |                               |
| <b>Compliance</b>                  | CE, EN 12830, IP68                                    |  |  | CE, EN 12830, IPS4            |                          |                               |
| <b>Wall mounting</b>               | X   |  | Logger cradle accessory provided                 |                               |                          |                               |

|                           |  |   |
|---------------------------|--|---|
| <b>Software</b>           | <b>Supported operating systems: Windows<sup>o</sup><br/>XP SP3 / Vista / 7 (32 and 64 Bit)</b>   | <b>Minimum Hardware Requirements: Pentium<br/>4, 2 GHz Processor or better, 512 MB RAM,<br/>250 MB available disk space</b> |
| <b>Data View features</b> | Real-time data in multiple displays (Graph, Table, Statistics)   |   |
| <b>Boomerang feature</b>  | Configure logger setup to automatically create email PDF data report when connected to computer via USB  |   |
| <b>Alarm features</b>     | Alarm level setup with email & SMS notifications. Two alarm levels, allowing for programming of separate parameters, including alarm delay and duration  |   |
| <b>Report module</b>      | The Report module provides the MicroLite user with an intuitive interface for creating and generating reports which have many parameters garnered from the MicroLite units and software. Each report can be emailed to a selected distribution list at pre-defined time intervals, in PDF and Excel format |   |
| <b>Analysis features</b>  | Dew point analysis, FO Pasteurization, histogram, MKT, statistics with report to Excel and CSV formats   |   |
| <b>DatPass (FDA)</b>      | DatPass is a user administration software which supports the assignment of passwords and operating privileges for all fourtec industry application software ensuring CFR compliancy, CFR is a Food and Drug Administration (FDA) issued regulation Title 21 Code of Federal Regulations, part 11           |   |