

MicroLog Specifications

	MicroLog		MicroLogPRO II	
	EC600	EC650	EC800	EC850
Sampling Resolution	8-bit		16-bit	
Internal Sensor Range	Temp: -30 to 50 °C	Temp: -30 to 50 °C RH: 10 to 90%	Temp: -40 to 80 °C	Temp: -40 to 80 °C RH: 5 to 95%
Temperature Accuracy	± 0.6 °C		± 0.2 °C	
Humidity Accuracy	N/A	± 3%	N/A	± 2%
Temperature Resolution	0.5 °C (-30 to -29 °C and 33 to 39 °C) 0.4 °C (-28 to -22 °C and 23 to 32 °C) 0.3 °C (-21 to 22 °C)		0.06 °C	0.04 °C
Humidity Resolution	N/A	0.5 %	N/A	0.1 %
Ext. Sensor Support	Temperature, 4 to 20 mA, 0 to 10 V, pH			
Memory Capacity	16,000 (over 3 channels)		52,000 samples (over 3 channels)	
Sampling Rate	Minimum: Once every 10 seconds Maximum: Once every 2 hours		Minimum: Once every second Maximum: Once every 18 hours	
LCD Display	Two digit, 7-segment LCD		Four digit, 7-segment LCD with decimal point	
Dew Point	N/A		LCD and Software reading	
LED	N/A		Bi color Alarm	
PC Connection	RS-232		Mini USB	
Infrared Printout	Minimum, maximum and duration up to 30 days Wireless report to portable thermal printer HP82240B		N/A	
Power Supply	1/2 AA 3.6V Lithium battery		2/3 AA 3.6V Lithium battery	
Battery Life	~ 1.5 years depending on sampling rate		~ 2 years depending on sampling rate	
Dimensions	Diameter: 72 mm Thickness: 22.9 mm			
Weight	55 g			
Wall Mount	N/A		Cradle accessory	
Standards Compliance	CE, IP65	CE, IP54	CE, IP65	CE, IP54

About fourtec

fourtec – Fourier Technologies is a recognized leader in data logging and monitoring solutions for controlled industrial environments, such as food, pharmaceutical, medical, storage and transportation industries.

Our solutions enable our customers to deliver higher quality products, ensure consumer safety, comply with regulatory requirements and increase profitability. Innovation, expertise and a commitment to quality are the values that drive the development and annual production of more than 400,000 products.

fourtec – Fourier Technologies is an associate member of GCCA (Global Cold Chain Alliance). A proven specialist in cold chain management systems, we deliver end-to-end solutions that accompany products from the processing floor to the end user.

fourtec – Fourier Technologies operates in over 60 countries, through an established network of selected resellers. fourtec's trusted data acquisition solutions have been implemented globally by many mission critical organisations including NASA, Coca Cola, Qantas, Colgate and TEVA.

fourtec – Fourier Technologies is a spinoff company based on the industrial division of Fourier Systems, a world leader in data logging, data acquisition and monitoring, with more than 20 years of experience in serving this market.

For more information please contact: info@fourtec.com
For ordering information: <http://www.fourtec.com/order>

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Monitoring environments
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Optimizing temperature
in refrigerated
warehousing



HOSPITALS
Medical alert monitoring,
sterilization, blood
products storage and
transport



COLD CHAIN
Ensuring quality products
throughout the cold chain
process

MicroLog Solution
GENERAL DATA LOGGER

The MicroLog solution offers two low-cost portable data logging systems to meet a broad spectrum of data monitoring needs.

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Ensuring product quality
throughout the cold chain

Analysis software

MicroLog solution – more than a decade of customer satisfaction and application reliability for process and manufacturing industries

- Accurate, portable 8-bit (MicroLog) and 16-bit (MicroLogPRO II) data loggers
- Dedicated analysis software enabling powerful monitoring and data analysis
- Measuring up to 4 parameters: Temp, RH and dew point plus external sensors
- External sensors include: Temperature, pH, 4-20 mA, 0-10 V and more
- 4 to 20 mA and 0 to 10 V inputs allow for connection with any industry standard sensors
- Low power consumption allowing up to 2-year battery life, providing an ideal long-haul solution
- Multi-function keypad supporting manual time stamp and push to run
- View up to 30 days min/max data history on LCD screen
- Water and dust proof (IP65/NEMA 4)
- Records months of data up to 52,000 samples
- Sensor values are displayed in their own units on the LCD
- Built in LED for logging and alarm indication

MicroLog Compact 8-bit Data Logger



A compact 8-bit data logger capable of recording data for months, even long-term shipping and storage. All data viewing, data export, and printing is done via two function keys.

- External input enables additional data collection from a variety of external sensors
- View up to 30 days min/max history
- Built-in quality sensors for temperature and humidity
- Programmable sampling rate
- Records months of data - up to 16,000 samples
- Low and high alarm level programming

MicroLab Software for MicroLog

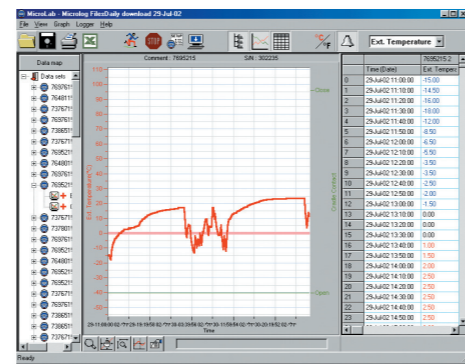


Supported Operating Systems:
Windows® 95 and higher

Minimum Hardware Requirements:
Pentium 300 MHz or higher
32 MB RAM
6 MB available disk space

Data Management

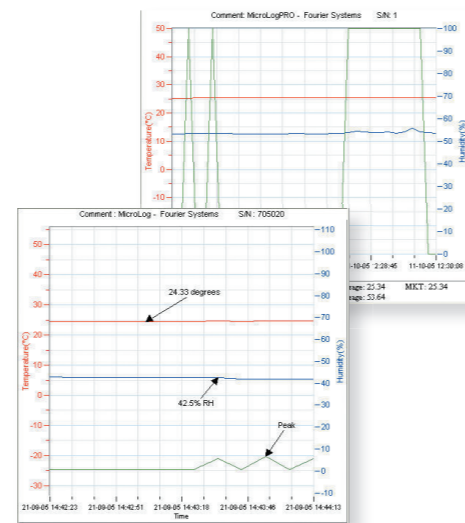
Data can be clearly identified according to the Serial Number of the logger the data was downloaded from. The alarm threshold relevant to that logger is also displayed in the main Graph view. MicroLab automatically saves the data and produces daily status reports of your environment.



Data Analysis

Dew point analysis, FO Pasteurization, histogram, MKT, statistics with export to Excel and CSV formats.

Annotation feature enables text marks to be placed on the graph at relevant points where certain information needs to be highlighted.



MicroLog & MicroLogPRO II External Sensors



DT277 PT-100 Adapter
MicroLogPRO II Range: -200 to 400 °C



DT132 Temperature (2.5m); DT093 (8m)
MicroLog Range: -50 to 100 °C
MicroLogPRO II Range: -50 to 110 °C
MicroLog Resolution: <1 °C
MicroLogPRO II Resolution: <0.3 °C



DT168 pH Adapter & Electrode
Range: 1 to 14 pH
MicroLog Resolution: 0.116 pH
MicroLogPRO II Resolution: 0.02 pH



DT140 Voltage Adaptor
Range: 0 to 10 V
MicroLog Resolution: 0.05 V
MicroLogPRO II Resolution: 0.01 V



DT139 Current Adaptor
Range: 4 to 20 mA
Resolution: ±0.1 mA

MicroLogPRO II Compact 16-bit Data Logger



The next generation MicroLogPRO II carries all the benefits of the MicroLog plus some unique enhancements:

- Modified sensor location for improved reliability and stabilization time
- Higher sampling resolution and rates for more accurate readings
- Large memory - 52,000 samples
- 4 digit LCD
- Default mini-USB port for PC communication and firmware updates
- Built-in LED for logging and alarm indication
- Manual time stamp on logger memory while sampling
- New multi-platform software - with comprehensive analysis and alarm notification capabilities

DataSuite Software for MicroLogPRO II



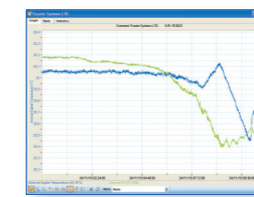
Supported Operating Systems:
Windows® XP SP3 / Vista / 7 (32 and 64 Bit)

Minimum Hardware Requirements:
Pentium 4, 2 GHz Processor or better,
512 MB RAM, 250 MB available disk space

The DataSuite software provides security for your products with online monitoring and control of the entire application environment.

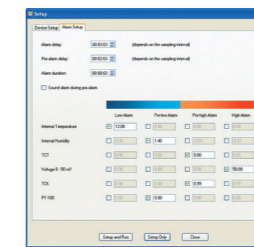
Data View Features

Real-time data in multiple displays (Graph, Table, Statistics)



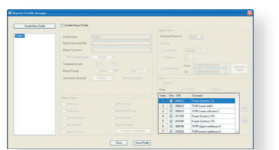
Alarm Features

Multi-alarm level setup with email and SMS notifications



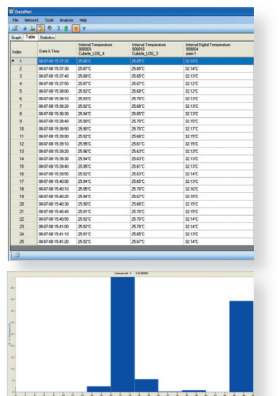
Report Module

Report module provides an intuitive interface for generating comprehensive data reports with automatic email distribution in PDF and Excel.



Analysis Features

Dew point analysis, FO Pasteurization, histogram, MKT, statistics with export to Excel and CSV formats

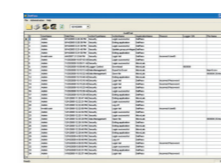


FDA Title 21 CFR Part 11 Compliant



DatPass

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.



DatPass Audit Trail

MicroLog & MicroLogPRO II Operating Method

1. Record data

2. Connect to PC via RS232 cable or USB cable

3. Display data graphically in the MicroLab or on the DataSuite unified platform analysis software

