More than a decade of customer satisfaction and application reliability for process and manufacturing industries

INNOVATIVE MONITORING SOLUTIONS

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

External sensor input

MicroLogPRO II RH/Temp

Analysis software

MicroLog Solution
GENERAL DATA LOGGER

www.fourtec.com

PHARMACEUTICAL
Monitoring environments in labs, fridges, freezers and culture rooms

WAREHOUSING
Chemical, industrial and perishables storage

COLD STORAGE
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

- Accurate, portable MicroLog and MicroLogPRO II data loggers
- Powerful monitoring and data analysis software
- 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 connecting with industry standard sensors
- Low consumption, 2-year battery life, ideal for long-haul monitoring
- Multi-function keypad supporting manual time stamp and Push to Run modes
- 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
- Built in LED for logging and alarm indication

MicroLog Compact Data Logger

A compact 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
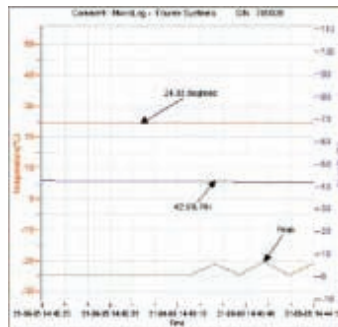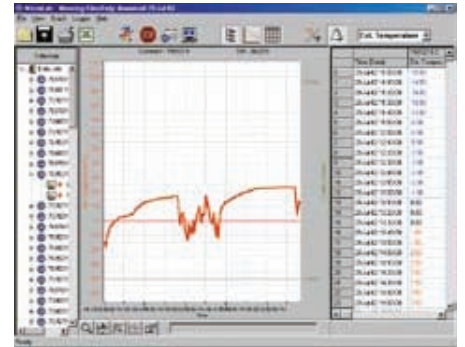
MicroLog Software - MicroLab

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	**DT132 Temperature (2.5m); DT093 (8m)**	**DT168 pH Adapter & Electrode**	**DT140 Voltage Adaptor**	**DT139 Current Adapter**
MicroLogPRO II Range: -200 to 400 °C	MicroLog Range: -50 to 100 °C	Range: 1 to 14 pH	Range: 0 to 10 V	Range: 4 to 20 mA
	MicroLogPRO II Range: -50 to 110 °C	MicroLog Resolution: 0.116 pH	MicroLog Resolution: 0.05 V	Resolution: ±0.1 mA
	MicroLog Resolution: <1 °C	MicroLogPRO II Resolution: 0.02 pH	MicroLogPRO II Resolution: 0.01 V	
	MicroLogPRO II Resolution: <0.3 °C			

MicroLogPRO II Compact 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
- Increased memory - 52,000 samples
- Enhanced 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:
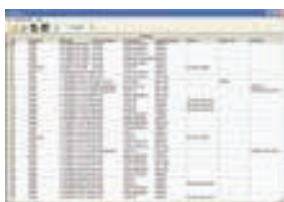Pentium 4, 2 GHz Processor or better, 512 MB RAM, 250 MB available disk space

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
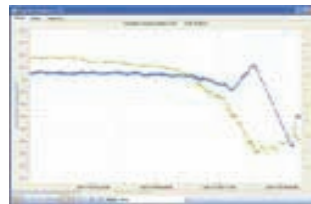
For MicroLab & DataSuite

DatPass Audit Trail

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)

Report Module

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

Alarm Features

Multi-alarm level setup with email and SMS notifications

Analysis Features

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

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

MicroLog

COMPARISON SPECIFICATIONS TABLE

	MicroLog		MicroLogPRO II	
	EC600	EC650	EC800	EC850
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)		0.1 °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 indication	
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	None		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 production of our 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.

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