



## MicroLog

### Models

EC600	Temperature and external sensor data logger
EC650	Temperature, relative humidity and external sensor data logger

### Input (Built In Sensors)

Temperature	-30°C to 50°C (resolution 0.5°C, accuracy 0.6°C)
Relative Humidity	0-100% (resolution 0.5%, accuracy ± 3%)

### Output

- Two digit 7-segment LCD
- IRDA interface to portable HP printer and PC
- RS-232 cable connection to the PC (in addition to IRDA port)

Memory capacity 16,000 samples

Power supply

- Internal lithium battery: 3.6V TL5902
- Battery life: Approximately two years

Sampling rate

- User defined: From 1 per 10 seconds to 1/two hours

### Dimensions

- Thickness: 22.9mm
- Round: 72mm diameter
- Weight: 55gr

### Standards

- Water and dust proof IP65 standard
- compliance, for EC 600 model
- CE and FCC standard compliance

## MicroLab Software

- Running under WINDOWS 95/98/2000/ME/XP and NT
- Fast data download from the MicroLog
- Graphic visualization of the MicroLog data
- Data displayed in Graphs and Tables
- Data Export to EXCEL
- Graphic analysis tools such as Markers, Zoom
- Data Map allowing the users to easily see many MicroLog data loggers in one screen
- MicroLog SETUP windows, for setting up the MicroLog sample rate, sensors and alarm level
- MicroLog sensor calibration
- Display of MicroLog Battery Level
- Working with the wireless MicroLog cradle and Receiver
- Showing daily reports of a fleet of data loggers
- Visual alarm levels on the Graph and Table

## External Sensors

### Temperature Sensor

Range:	-50°C to 100°C
Resolution:	• Better than 1°C • Between -20° to 75°
Accuracy:	±2% of reading
Probe Length:	100mm
Probe OD:	3.2mm
Max. temperature:	150°C

### pH Sensor

Range:	1-14pH
Resolution:	0.116pH
Accuracy:	2% of reading
Calibration	single point, done with a small trimmer on the sensor.

### 0-10 Voltage Sensor

Range:	0-10V
Accuracy:	± 3% before calibration
Input Impedance:	3 M
Calibration:	Two point calibration
OV protection:	+30V
Resolution:	0.05V

### 0-20 mA Current Sensor

Range:	0-20 mA
Resolution:	±0.1 mA
Accuracy:	± 3% before calibration
Calibration:	Two point calibration
OC protection:	55 mA

### Contact Adapter

Range:	open/close
Connector:	Screw Terminal
Cable Length:	2.5 m
Internal Pull-Up Resistor:	No need for external power source

## Ordering Information

Part Number	Description
MicroLog	
EC600	Temperature data logger
EC650	Temperature and relative humidity data logger
External Sensors	
DT132	Temperature Sensor
DT140	0-10 Voltage Sensor
DT139	0-20 mA Current Sensor
DT141	Contact Adapter
DT168	pH Adapter
DT018	pH Electrode
Cradle	
DT174	Alarm Cradle
DT175	Wireless Cradle with Alarm

### Software (Windows® 95/98/2000/ME/XP)

PC-KIT	MicroLab™ (Graphic data logging interface)
SFTMCL007	MicroLab™ Plus (Central data logging administration)
SFTMCL009	MicroLog 2 Excel™ (Export to standard worksheet programs accessory application)

To order MicroLog products and accessories:  
[www.fouriersystems.com](http://www.fouriersystems.com)