Committed to Quality

MicroLog & MicroLog plus Specifications

MicroLog

Models EC600 temperature and external sensor data logger
EC650 temperature, relative humidity and external sensor data logger

Inputs
(Two built-in sensors)

Temperature	-30°C – 50°C (resolution 0.5°C, accuracy ±1°C)
Relative Humidity	0 - 90% (resolution 0.5%, accuracy ±3%)

External Sensors

Voltage	0 to 10V
Current	0 to 20mA
Temperature	-50 to 100°C
pH	0 to 14pH
Contact	Open/Closed

Outputs hree digit 7 segment LCD
IRDA interface to HP-printer and host computer
RS232 serial communication at 19,200 bps

Memory Capacity 16,000 recording samples

Power Supply

Internal Battery	Lithium - 3.6V 1.2AH 1/2AA
Battery Life	Approximately two years, replaceable (May vary when connecting external sensor)

Sampling Rate

User Defined	From every 10 second to every 2 hours

Dimensions

Round	72 mm diameter
Thickness	22.9 mm
Weight	55 gr

CE and FCC standard compliance

MicroLog Plus Software

Data Displaying (from up to 200 MicroLogs)
Real-time temperature and humidity readings
Visual alarm when the logger crosses an upper or lower alarm threshold for temperature or humidity
Battery level
An Excel file containing all of the measured data received from the device

Setting up the MicroLog
The ID of each of the monitors
The alarm levels of each monitor
Comment
The sampling rate from every minute to every hour

Minimum PC requirements
Windows 95/98 or higher
6MB available disk space
CD ROM drive for software installation
Available communication port

MicroLog Cradle

Audible Alarm

Serial Communication Channels RS232 at 19.2 Kbps
USB at 1.5 Mbps

Connectors
4-pin flat connection to the MicroLog
4-pin flat connection to any MicroLog external sensor
Screw terminal for External DC supply

Power Supply

Internal	Lithium battery, 3.6V
External	6-30V, minimum 300mA

RF Transmission EMC conformant to EN 301 489-3
Type approved to ETS 300-220
Usable range to 300m (75m indoors)
418 (UK) & 433.92MHz (Euro) versions
1mW on 418 MHz, 10mW on 433.92MHz
2nd harmonic < -60dBc
16cm length antenna

CE and FCC standard compliance

MicroLog Plus Receiver

Communication Ports: RS232 at 19.2Kbps
USB at 1.5Mbps

Power Supply: External 9-12VDC , minimum 300mA

RF receiver European Version:
Frequency: 433.92MHz
Type approved to ETS 300-20
Usable range to 300m (75 indoors)

North America Version:
Frequency: 914.5MHz
Usable range to 120m (30m indoors)

Antenna: SMA connector
Supplied with rubber whip antenna (with a hinge)

Dimensions: 10x9x25 cm

CE and FCC standard compliance

External Sensors

Temperature Sensor

This MicroLog sensor takes external temperature measurements in a wider range than the internal temperature sensor. With a faster response time than the internal sensor, it enables measuring materials that cannot be measured with the internal sensor.

Range:	-50°C to 100°C
Resolution:	Better than 1°C Between -20° to 75°
Accuracy:	±2% of reading
Probe Length:	150 mm
Probe OD	6 mm
Max. temperature	150°C

pH Sensor

Will help you monitor pH level of liquids.

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

A general sensor that will measure any device or transmitter that produces a linear analog 0-10V output. The voltage can easily be converted to the correct measured units with the help of the MicroLab program.

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

This MicroLog external sensor can sample any device or transmitter, producing a linear current between 0-20 mA. The 0-20 mA can be converted to the correct measured units by using MicroLab's calibration option.

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

Contact Adapter

This MicroLog sensor monitors reed relay contacts and switch status (open/closed), to identify the correlation between phenomena such as temperature change and door status.

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

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