

IS€, Inc.

MicroLog[™] Plus

A wireless data logging system for remote monitoring of up to 200 data loggers



Features

- Capable of receiving data from loggers located up to 300m away from the computer
- License free wireless communication
- Handles data from up to 200 loggers
- Very easy, color coded, user interface reporting each logger status
- Programmable threshold for each logger that will activate an alarm indication when crossed.
- Cost effective solution for multiple data logging

Microlog Plus is the ideal solution for multiple data logging applications in:

Supermarkets

Food transportation

Storage

Air conditioning and ventilation

Clean room

Warehouses

Art galleries



When pre-defined thresh-holds are crossed MicroLab sends an email or SMS alarm message automatically with the unit details.



Monitoring environmental conditions in large warehouses, supermarkets and production plants is a must, yet it involves the recording of temperature and humidity

The MicroLog Plus is the best solution for collecting and handling all this data.

MicroLog Plus integrates:

in many locations.

- The MicroLog Logger containing built-in sensors for temperature and humidity and an analog port compatible with almost any kind of external sensor
- The MicroLog Cradle a mount for the Logger which is also a wireless (RF) transmitter that transmits readings at user-set intervals to a remote PC monitoring station for observation and data storage
- The MicroLog Receiver a small RF receiver that connects to the monitoring station computer
- MicroLog Plus Management Control Software - lets you control and monitor up to 200 MicroLog Logger devices from a remotely located computer.

Each cradle is tagged with an ID number. Cradles transmit data in different time slots according to their ID in order to prevent data collision between two or more cradles. The cradle memory can by automatically, or manually downloaded every day.

The MicroLog Plus receiver picks up all transmissions and transfers them to the MicroLog Plus software. With a very friendly color code interface the software reports the status of up to 200 MicroLogs in one screen. The software also stores the data of each MicroLog, sets the MicroLog alarm level, its sampling interval and all other necessary parameters.

Just think how much time that you are wasting daily having to download each of the data loggers scattered in the warehouse or in the production plant. Using the MicroLog Plus all data will arrive directly to your computer and in real time!

MicroLog

Models

· EC600 temperature and external sensor data logger

EC650 temperature, relative humidity and external sensor data

Inputs (Two built-in sensors)

-30°C - 50°C Temperature

(resolution 0.5°C, accuracy ±0.6°C)

Relative Humidity

(resolution 0.5%, accuracy ±3%)

External Sensors

Voltage Current 0 - 10 V0 - 20 mA Temperature -50 − 100 °C PT100 Temperature -10 – 10° C

-100 - 120 °C 0 – 14 pH Open/Closed

Contact Outputs

Three 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 Battery Life

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

Sampling Rate

User Defined

From every 10 second to every 2 hours

Dimensions

Round 72mm diameter Thickness 22.9mm 55gr Weight

CE and FCC standard compliance

MicroLog Cradle

Cradle Alarms

· Audible Alarm · Visual Alarm Led

Serial Communication Channels

• RS232 at 19.2Kbps

• USB at 1.5Mbps

Cradle Memory

Connectors

2000 samples holding the sensor

· 4-pin flat connection to the MicroLog

· 4-pin flat connection to any MicroLog external sensor

Screw terminal for External DC supply

· Screw Terminal Board connections

- Power supply: DC 6-30 V

External sensor

External contact sensor

- High alarm open collector 30V/2A - Low alarm relay open collector

30V/2A

Power Supply

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

European 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

• 1mW on 418MHz, 10mW on

433.92MHz

• 2nd harmonic < -60dBc

· 16cm length antenna

North America RF Transmission

EMC conformant to EN 301 489-3,

FCC PART 15,249

wait

Usable range to 120m (30m indoors)

1mW at 914.5MHz Harmonics/spurious emissions

8cm length antenna

CE and FCC standard compliance

MicroLog Plus Receiver

European Version

Usable range to 300m (75m indoors)

 One RS232 communication port to the computer

Power Supply

Internal External

RF Receiver

Lithium battery 3.6V, 1.2AH, 1/2AA AC/DC 6V adapter

Red LED indicating RF signal

 Green LED indicating valid data being received

Type approved to ETS 300-220

CE and FCC standard compliance

North America Version

Usable range to 120m (30m indoors)

RS232 communication port to

Power Supply

Internal External Lithium battery 3.6V, 1.2AH, 1/2AA AC/DC 6V adapter

RF Receiver

· Red LED indicating Ext power

· Green LED indicating valid data

being received

CE and FCC standard compliance

MicroLab 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

· email/SMS messaging

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 95/98/2000/XP/NT

Part No.

10940

6MB available disk space.

CD ROM drive for software installation

· Available communication port

Ordering Information Description

Temperature data logger
Temperature and relative humidity data logger EC650 DT132 External temperature sensor

External PT100 temperature sensor -10 - 10 °C DT252 External PT100 temperature sensor -100 - 120 °C DT253

DT140 External 0 – 10 V adapter External 0 – 20 mA adapter DT139 DT141 External contact sensor Transmitter and alarm cradle DT175 DT152 SFTMCL007 MicroLog Plus receiver MicroLab Plus software SFTMCL012 MicroLog Delux DT047 Serial communication cable

DT180 USB communication cable DT242 DT243 220/6V AC/DC receiver adapter 110/6V AC/DC receiver adapter 220/6V AC/DC transmitter adapter 110/6V AC/DC transmitter adapter DT245 DT246 3.6V Lithium battery

External antennae

To order: www.MicroLoaPlus.com

