

MULTiLOG2 Data Logger Data Sheet

Introduction:

The MULTiLOG2 is a battery operated data logger that records data from up to 24 sensors that can be configured as analogue or digital sensors intended for:-

- Food preparation and food storage sites
- Health facilities and vaccine stores
- Computer rooms

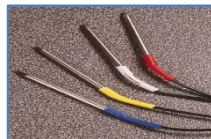
Supplied with comprehensive software that allows real time monitoring of data and reporting as charts or tables of results.

General Features:

- Microprocessor controlled
- 2Mbits of SRAM non-volatile (24k readings)
- 11 character LCD scrolling display
- Temperature sensors accurate to 0.2°C
- Temperatures displayed in Celsius or Fahrenheit
- 24 sensors maximum
- Temperature sensors on 20m leads but option to extend to 200m without loss of precision.
- Digital sensors can record Open/Closed or ON/OFF.
- Instant Monitor™ on the PC software and a scrolling LCD allows users to see real time sensor states.
- Built-in alarm-sounder and flashing LED
- Push button to select sensor data to display
- IP65 proofed enclosure for the electronics
- Suitable for use in tropical conditions
- Separate batteries for logging and alarms
- Uses Nickel Metal Hydride rechargeable batteries to provide 72 hours logging without a recharge
- USB communication interface to download data and re-charge the batteries
- Built-in GSM module for sending SMS alarm messages over a cell phone network
- User programmable audible and text alarms.
- Automatic download of data to PC to minimise loss of data.
- Users can choose to have their own language in the MULTiLOG2 PC software



Air probe tip



Piercing probe tip

Temperature sensors



Physical:

- Weight Control box 1000g
- Size: 200 x 110 x 60mm
- Mounting size: 179 x 54mm
- Case: ABS flame retardant (UL 94 V-0): Colour Light grey
- Operating environment -20 to +60°C

Sensors – analogue:

- Weight: (20m) 0.25kg
- RT curve matched thermistors
- Accuracy: +/- 0.2°C
- Recording resolution: 0.1°C
- Temperature measuring range: -30°C to 70°C
- Response time in ambient air:
 - Air probe: T90 = 20min
 - Piercing probe: T90 = 5min
- Sealed to IP65


Sensors - digital door switch:

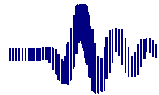
- Weight: (20m) 0.25kg
- Operating distance between contacts: 30mm
- Dimensions:
 - Reed switch half 82x20x25mm
 - Magnet half 82x20x18mm
- State: normally open

Logging Duration:

- 10 days at 15 minute intervals
- Logging interval 15,30,60 minutes
 - 1 min (note: special case for calibration – see web site)

Approvals:

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- WHO/PQS/E006/TR03.1: November, 2006 (in progress)
- USDA approved for use in cold treatment warehouses



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Batteries

2 x 4.8V 2500mAh AA Square Battery Pack of 4 "Low Self Discharge" battery packs. Weight 118g

Software

- Operates under Microsoft Windows 7™ operating system (and earlier versions).
Supplied on a CD-ROM which contains the installation files
- Requires 2Mbytes of hard drive space and 1GByte of RAM
- Download time: 20sec for 2Mbits of data
- Language files available in (Simplified) Chinese, English, French, Portuguese, Russian and Spanish

Embedded Modem

The MULTiLOG2 contains a Telit™ GL865-QUAD band GSM/GPRS module in 850/900/1800/1900 MHz. frequency range and is compliant with eCall European directive.

Approvals

Fully type approved conforming with R&TTE directive
FCC, Industry Canada
CE, GCF

Recommendations

- The MULTiLOG must be installed within 3 months of purchase to avoid battery damage through discharge.
- The accuracy of the sensors attached to the MULTiLOG2 should be checked annually using the method detailed on our web site.
- The rechargeable batteries packs should be replaced every 3 years.

Required and Related Product Options:

TYPE	REQUIRED	ORDER CODE	QUANTITY
NiMH battery packs	Supplied from new	ML2batt	2
Sensor extension cable & junction box	Option	MLE100	1
Sensor extension cable & junction box	Option	MLE50	1
Sensor extension cable & junction box	Option	MLE25	1
External alarm on 10m audio cable	Option	MLEalarm	1
Temperature sensors (20m)	Option	MLS20	1
Digital sensor – door switch	Option	MLD20	1
Digital cable for zero volt contact on motor (10m)	Option	MLDM	1
USB interface lead	Supplied from new	MLUSB	1