



MULTiLOG2 Data Logger Data Sheet

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

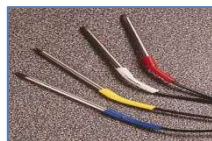
It acts as a base station and data is transmitted by wire to an always-on PC to which it is connected via USB and allows inspection of the data via Instant Monitor™, visual warning of alarms and by SMS messaging, automatic downloading of data to the PC as well as recharging the batteries to ensure recording continues in the event of a power outage.

General Features:

- Sensor/Temperature LCD scrolling display
- Temperature sensors accurate to 0.2°C
- Temperatures displayed in Celsius or Fahrenheit
- Temperature sensors on 20m leads but option to extend to 200m without loss of precision.
- Digital sensors can record door Open/Closed or ON/OFF.
- Instant Monitor™ on the PC software and a scrolling LCD allows users to see real time sensor states and alarms.
- 1000 recordings per sensor with automatic timed download to the PC to minimise loss of data.
- Push button to select sensor data to display
- Suitable for use in tropical conditions
- Separate batteries for logging and alarms
- Uses Nickel Metal Hydride rechargeable batteries to provide 120 hours logging without a recharge
- USB communication interface to download data and re-charge the batteries
- Built-in pulsed alarm-sounder (80dB) and integral flashing LED
- Built-in GSM module for sending user programmable SMS alarm messages to up to 3 numbers over a cell phone network.
- On-screen language choice of English, French, Spanish, Portuguese, Russian, Simplified Chinese
- *NEW: now able to connect via USB to a wall charger to obtain power directly from a mains power supply ie without a PC connected



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 -30 to +60°C
- Relative humidity 0 to 95%
- Sealed to IP54 (splash-proof)

Sensors – analogue:

- Weight: (20m) 0.25kg
- RT curve matched thermistors: 5K Ohm at 25°C
- Accuracy: +/- 0.2°C (0 to 10°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
- Cable: RG174 A/U

Sensors - digital door switch:

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

Logging Duration:

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

GSM/GPRS Modem

- Quad-band frequencies
GSM850MHz, GSM900MHz,
DCS1800MHz or PCS1900MHz

Approvals:

- CE
- EMC directive 2004/108/EC,
R&TTE directive 1999/5/EC
- WHO/PQS/E006/TR03.1: November, 2006
- USDA approved for use in cold treatment warehouses

*Operating environment indicates the physical limits to which the unit can be exposed not the temperature measuring range



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Operation

Operates for at least 72 hours on full charge – checkable via the PC software. Solid red LED indicates mains electric power. A flashing red LED Indicates an alarm condition.

Software

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

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

Batteries:

- 2 x 4.8V 2500mAh AA Square Battery Pack of 4 “Low Self Discharge” battery packs.
Futuba connection Weight 118g . Nickel Metal Hydride (NiMH)
Transport - Not Restricted under IATA Special Provision A123
- The batteries in the MULTiLOG2 are fully charged and supplied disconnected.
- Install the MULTiLOG2 within 1 year of purchase to prolong battery life.
- The rechargeable batteries packs should be replaced every 5 years. No tools required.

Sensors

- The accuracy of the sensors attached to the MULTiLOG2 should be checked annually using the method detailed for calibration on our web site.

Product Order codes and Options:

TYPE	ORDER CODE
MULTiLOG2 control box	ML2CB
MULTiLOG2 software (PC only)	ML2SOFT *
Air Temperature sensors (20m)	MLS20
Piercing Temperature sensors (20m)	MLS2P
Sensor extension cable (100m)	MLE100
Digital sensor – door switch	MLD20
Digital cable extension cable (100m)	ML2DEXT
Junction box for extension cable	ML2JCT
USB interface lead	ML2USB *
USB Mains wall charger	ML2WALL
NiMH spare battery packs (2 per pack)	ML2batt
2m Antennae extension kit	ML2ANText
MULTiLOG2 Installation Kit	ML2INSK
Contract SIM card (suggest Vodafone™ partner Service Provider)	NOT SUPPLIED

*Included with ML2CB



Scan the QR code to go to our web site