## **Dataloggers**

Monolog 2 offers a comprehensive range of portable self-powered datalogging devices for numerous sensor types that utilise the latest electronics and software. A range of common software and interface platforms will cater for the variety of applications requiring critical condition measurement

# **MLTD16 Temperature Datalogger with Internal Sensor Specification**

Temperature Range	-40°C to +70°C
Memory	16,000 Readings
Accuracy & Resolution	±0.3°C Avg. Res. 0.5°C
Battery Type & Life	User Replaceable Lithium Battery, 1 -2 years battery life depending on use
IP rating	IP67
Sampling Rate	5 to 59 seconds or 1 to 255 minutes
Weight	70g
Size	Ø75mm (excluding lug), Ht 18mm
Warranty	12 month (excluding batteries)



#### **Accessories**

Windows Software	MLSWARE	Windows software
Interface	MLLINK	PC Interface
Start magnet	MLKEY	Start magnet in form of keyring

## **MLTXD16 Temperature Datalogger with Internal and External Sensor**



## **Specification**

Temperature Range	-40°C to +70°C	
Accuracy & Resolution	±0.3°C avg res. 0.5°C	
Storage Temperature	-40/85°C	
Weight	70 grams	
Temperature response time	Internal sensor T90 of 12min	
	s/s tipped external sensor T90 of 4 min. in moving air	
Memory	16,000 samples	
Time and Date	Real time clock, accuracy better than 40 secs. Per month at ambient	
Traceability	Temperature calibration can be provided to ISO 9002	
Sampling Rate	5 to 59 seconds or 1 to 255 minutes	
Power Source	User replaceable lithium batteries	
Typical battery life	1 to 2 years (dependant of PC communication)	
Case Material	Polycarbonate	
IP Rating	IP51	
Size	Dia. (excluding lug) 75mm, Ht. 18mm	
Data recoveyr	Via Chart Reader or interface and IBM compatible PC	
Software	MSWARE, console STD, console PRO operating Windows 95 onwards	
Recorder start up	Programmed time and date or magnet swipe	
Warranty	12 Months (excluding batteries)	

#### **Accessories**

Software	MLSWARE	Monolog 2 software disc for windows
Interface	MLLINK	PC Interface
Start magnet	MLKEY	Start magnet in form of keyring



# **Dataloggers**

## **MLTXXD16** - Temperature Datalogger with 2 External Temperature Sensors

## **Specification**

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## **Accessories**

Windows Software	MLSWARE	Windows software
Interface	MLLINK	PC Interface
Start magnet	MLKEY	Start magnet in form of keyring

## MLTHB16 - Datalogger Temperature and Humidity Sensors Specification



Temperature Measuring Range	-20°C to +60°C		
Humidity Measuring Range	0 to 100%		
Accuracy and Resolution	Temperature ±0.3°C avg. res 0.3°C Humidity ±0.3% at ambient, res 0.5%damesponse time of T90 in 10 seconds moving air		
Storage Temperature	-40/85°C		
Weight	100 grams		
Elongated Temperature probe response time	T90 of less than 1 minute for external sensor in moving air		
Memory	16,000 samples		
LED's	Green LED = Active/ Red LED = Alarm		
Humidity measuring range	0 to 100%, accuracy ±3% at ambient, resolution 0.5% and response time in 10 seconds in moving air		
Time and Date	Real time clock, accuracy better than 40 secs. per month at ambien		
Tractability	Temperature/Humidity Calibration can be provided to ISO 9002		
Sampling Frequency	1 to 255 minutes		
Power Source	User replaceable lithium batteries		
Typical battery life	1 to 2 years (dependant on frequency of PC communication)		
Case Materila	Polycarbonate		
IP Rating	IP51		
Size	Dia. (excluding lug) 75mm, Ht. 50mm		
Data recovery	Via ChartReader, or interface and IBM compatible PC		
Software	Windows 3.1, 95, 98, NT onwards		
Recorder start up	Programmed time and date or magnet swipe		
Warranty	12 Months (excluding batteries)		

#### **Accessories**

Software	MLSWARE	Monolog 2 software disc for windows
Interface	MLLINK	PC Interface
Start magnet	MLKEY	Start magnet in from of keyring





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## ML-IE-DN-16/L - Temperature Datalogger with Internal and External Sensor

## **Specification**

Internal -40°C to +70°C	
External -100°C to +40°C	
Internal ±0.3°C avg res. 0.5°C	
External ±0.3°C avg res. 0.5°C	
-40 to 85°C	
70 grams	
Green LED = Active/ Red LED = Alarm (plastic case only)	
Internal sensor T90 of 12min	
s/s tipped external sensor T90 of 4 min. in moving air	
16,000 samples	
Real time clock, accuracy better than 40 secs. Per month at ambient	
Multiple time zones supported	
Temperature calibration can be provided to ISO 9002	
5 seconds to 255 minutes	
User replaceable lithium batteries	
1 to 2 years (dependant of PC communication)	
Polycarbonate	
IP51	
Dia. (excluding lug) 75mm, Ht. 18mm	
Via Chart Reader or interface and IBM compatible PC	
MLSWARE, console STD, console pro operating Windows 95 onwards	
Programmed time and date or magnet swipe	
12 Months (excluding batteries)	
ML-IE-DN-16L	



#### **Accessories**

Windows Software	MLSWARE	Windows software
Interface	MLLINK	PC Interface
Start magnet	MLKEY	Start magnet in form of keyring

## ML-OE-KJ-16L - Temperature Datalogger with External Thermocouple input Specification



Temperature Range	0°C to +500°C	
Connection Type	2 pin miniature	
Memory	16,000 readings	
Accuracy & Resolution	±4°C, Res. 2°C over range	
Battery Type & Life	User Replaceable Lithium Battery, 1-2 years battery life	
	depending on use	
IP rating	IP51	
Data Recovery	Download via PC interface and IBM compatible PC or print out	
_	through Chart Reader	
Software	MLSWARE, console STD, console pro operating Windows 95 onwards	
Recorder Start-up	Programmed time & date or magnet swipe	
Time and Date	Real Time clock, accuracy better than 40 seconds per month a	
	ambient. Multiple time zones supported	
Sampling Rate	5 seconds to 255 minutes	
Storage Temperature	-40 to +80°C	
Case Material	Polycarbonate	
Weight	70g	
Size	Ø 75mm, Ht 18mm	
Warranty	12 months (excluding batteries)	
LCD Optional	Inclusive	

#### **Accessories**

Software	MLSWARE	Monolog 2 software disc for windows
Interface	MLLINK	PC Interface
Start magnet	MLKEY	Start magnet in form of keyring



MonoLog 2

Monolog 2 offers a comprehensive range of portable self-powered datalogging devices for numerous sensor types that utilise the latest electronics and software. A range of common software and interface platforms will cater for the variety of applications requiring critical condition measurement.

# ML-IE-DC-16/ EJ-IE-DC-16L - Temperature Datalogger with Internal and External Sensor

## **Specification**

Temperature Range	Internal -40°C to +70°C
. 3	External -20°C to +100°C
Accuracy & Resolution	Internal ±0.3°C avg res. 0.5°C
	External ±0.3°C avg res. 0.5°C
Storage Temperature	-40/85°C
Weight	70 grams
LED's	Green LED = Active/ Red LED = Alarm (plastic case only)
Temperature response time	Internal sensor T90 of 12min
	s/s tipped external sensor T90 of 4 min. in moving air
Memory	16,000 samples
Time and Date	Real time clock, accuracy better than 40 secs. Per month at ambient
Traceability	Temperature calibration can be provided to ISO 9002
Sampling Rate	5 seconds to 255 minutes
Power Source	User replaceable lithium batteries
Typical battery life	1 to 2 years (dependant of PC communication)
Case Material	Polycarbonate
IP Rating	IP51
Size	Dia. (excluding lug) 75mm, Ht. 18mm
Data recovery	Via Chart Reader or interface and IBM compatible PC
Software	MSWARE, console STD, console PRO operating Windows 95 onwards
Recorder start up	Programmed time and date or magnet swipe
Warranty	12 Months (excluding batteries)
LCD Optional	EJ-IE-DC-16L



#### **Accessories**

Windows Software	MLSWARE	Windows software
Interface	MLLINK	PC Interface
Start magnet	MLKEY	Start magnet in form of keyring

## **MLTV8 - High Temperature Datalogger with Internal Temperature Sensor**

# MonoLog 2 Digitron

## **Specification**

Temperature Measuring Range	0to +125°C
Accuracy and Resolution	±0.5°C avg. res 0.5°C
Storage Temperature	-40 to +85°C
Weight	70 grams
Temperature response time	T90 of 12 min. in moving air
Memory	16,000 samples
Sampling frequency	5 seconds to 255 minutes
Power Source	User replaceable lithium batteries
Typical battery life	1 to 2 years depending on frequency of PC communication
Case Material	Polysulfone
IP Rating	IP68
Time & Date	Real time clock, accuracy better than 40 seconds per month at ambient. Multiple time zones supported.
Size	Dia. (excluding lug) 75mm, Ht. 18mm
Data recovery	Download via PC interface and IBM compatible PC pr printout through Chartreader
Software	Windows 95 onwards
Recorder start up	Programmed time and date or magnet swipe
Warranty	12 Months (excluding batteries)

### Accessories

Software	MLSWARE	Monolog 2 software disc for windows
Interface	MLLINK	PC Interface
Start magnet	MLKEY	Start magnet in from of keyring



MonoLog 2

## **MLTACXZY2 - High Temperature Autoclave Logger**

The Autoclave logger is a special product that can withstand high temperature and pressure environments to +150°C/5 Bar for 30 minutes, 150°C for 60 minutes in dry heat and indefinite operation at +125°C. Primary intended use is the qualification of Autoclaves used for sterilisation but is also suitable for measuring any high temperature applications not exceeding the specifications below. The product is supplied with a stub probe that registers the environment temperature from +25°C to +150°C, and an internal temperature sensor for monitoring of logger internal temperature conditions and prohibiting reprogramming of logger until internal temperature has returned to 40°C. Battery is user replaceable.

## **Specification**

Temperature Range	-25°C to +150°C	
Endurance Ratings	Rated autoclave @ 150°Cm 5bar:30 minutes	
Li ludi ai lue Natii igs	Typical oven (dry heat) @ 150°C:60 minutes	
	Oven (dry heat) @ 125°C@ indefinite (depending on battery life) provided	
	temperature never exceeds 125°C	
Memory	2000 Readings	
	•	
Accuracy & Resolution	for temperatures > 22°C±0.5°C Avg. Res. 0.5°C	
Sensors	External sensor used for sampling environment under test	
	Internal sensor measuring range of 1/150°C used for diagnostic purposes only	
Storage Temperature	0/125°C	
Elongated Temperature probe	T90 of less than 4 minutes for temperature probe in moving air	
sensor time		
Time & Date	Real time clock, accuracy better than 40secs per month at ambient	
Battery Type & Life	User Replaceable high temperature Lithium Battery, 1 year battery life depending on	
3 3.	use	
Data recovery	Interface and IBM compatible PC	
IP rating	IP68 tested to 5 bar	
Sampling Rate	5 to 59 seconds or 1 to 255 minutes	
Case Material	316 Stainless steel & PEEK high temperature resin	
Weight	345g	
Size	Ø65mm, Ht 43mm, probe height 50mm and probe Ø4.5mm	
Software	MSWARE, console STD, console PRO operating Windows 3.1, 95,98 and NT	
	onwards	
Recorder start up	Programmed time & date or magnet swipe	
Warranty	12 months (excluding batteries)	

#### **Accessories**

Software	MLSWARE	Monolog 2 Software disk for windows
Interface	MLLINK	PC Interface



## Accessories

Software	MLSWARE	Monolog 2 software disc for windows
Interface	MLLINK	PC Interface
Start magnet	MLKEY	Start magnet in form of keyring



## **Monolog 2 Accessories**

#### **Alarm Link**

An alarm link interface that allows the alarm status in the logger to control an external device (i.e siren).

Size	Dia. 80mm, Ht 35mm
Weight	50 grams
Storage Temperature	-40 to +85°C
Earliest firmware revisions of Junior required for support of Alarm link	The earliest firmware versions which support the Alarm Link are 1.1c (for 1.XX loggers), 2.3c (for 2.XX loggers) and 3.2c (for 3.XX loggers). Also, your logger must have the ability to indicate an alarm status, either through LED's, an LCD or through an audible alarm, which is denoted by Alarm Compatibility Symbol
Power Requirements	9-24 Volts DC, 100mA, External Source
Alarm Output	NC or NO, 0.5A @ 24VDC. maximum switched power 30W.
IP Rating	IP51
Warranty	12 Months



#### **Chart Reader**

The Chartreader allows download and printout of logged readings without the use of a computer. Printout can be either in a list of out of specification readings or a graph. Muliple sets of downloaded logged readings can be stored in the ChartReader's non-volatile memory for later transfer to a PC

Memory	1MB non-volatile memory, storage sufficient for download of 300 typical
	logger data sets.
Printer Mechanism	Impact printer (accepts duplication printing paper)
Printer Speed	3.5 lines per second (equivalent to1333 logs per minute)
IP Rating	IP50
Data Recovery Download v	a PC interface and IBM compatible PC or printout
Size Length 225mm, width	120mm, height 100mm
Storage Temperature	0/80°C (32/176°F)
Weight	1.125 kilograms
Power Source	Rechargeable NiCad battery
Battery Life Before	Typically one hour continuous printing
Recharge	
Battery Recharge Time	Typically 90% in one hour
Recharge Adaptor Rating	12 volts @ 1 Amp or vehicle cigarette lighter (Adaptor not supplied)
Case Material	Polycarbonate
Configuration Software	Console for Windows® 98 or later, available free on www.digitron.co.uk
Operating Temperature	0/50°C (32/122°F)
Warranty	12 months, excluding batteries



#### **Interface Holder**

The Alarm Link Interface Holder is designed to hold the Alarm Link Interface together with a Monolog 2 Logger secure in position. Its four screw holes make it easy to fix wherever you need it to be.

Weight 62gms Size 100 x 96 x 43mm



