

**The GenII Logmitter is a series of devices from Eltek that can be configured as a GenII transmitter or standalone datalogger.**

LM14E and LM47B are the first release of the GenII Logmitter series.

The devices are battery operated and ideal for short or long term environmental monitoring.

Eltek's GenII Logmitter is a first in that you get a compact self-contained and highly accurate device that is a logger or a transmitter as required.

Configured as a logger and deployed alone, it is ideal for smaller spaces and short term or temporary events in sites such as galleries or laboratories. For large buildings, e.g. city block museums, storage areas or research laboratories, it can be deployed as a transmitter with other Logmitters which are also configured in transmitter mode, reporting to a receiver.

Used together with Eltek Darca Heritage software, which is designed for conservators and collection managers alike, it provides the ideal solution for detailed environmental audits and day to day monitoring. Logmitter simply grows with your expanding requirements with all data available on a common platform.

## Basic Logmitter devices

LM14E



High specification RH and temperature probe can be placed precisely where needed. In addition, two temperature only probes can be connected.

**Specification**

RH: 0-100%  
Temp:  $\pm 0.4^{\circ}\text{C}$  ( $-5^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ )  
 $\pm 1^{\circ}\text{C}$  ( $-20^{\circ}\text{C}$  to  $65^{\circ}\text{C}$ )  
2 x thermistor temperature inputs  
N.B. the connected Eltek probe thermistor accuracy is:  $\pm 0.1^{\circ}\text{C}$  ( $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ )  
Battery pack: 4 x AA non rechargeable  
Long battery life - typically several years at 5 minute log/transmit interval.

LM47B



Indoor, battery operated air quality transmitter with built-in professional grade CO<sub>2</sub> 0-5000ppm NDIR (Infrared) technology CO<sub>2</sub>, RH and temperature sensors.

**Specification**

RH: 0-100%  
Temp:  $\pm 0.4^{\circ}\text{C}$  ( $-5^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ )  
CO<sub>2</sub>: 0-5000ppm  $< \pm 50\text{ppm} + 3\%$   
(CO<sub>2</sub> value is read every 5 minutes.)  
Battery options:  
6 x AA non rechargeable pack for > 4 months operation  
Li-ion non rechargeable pack for > 6 months operation

Logmitters will be available soon for 1,2,4 and 8 input thermistor devices, 1 and 4 input thermocouple devices and 2 input PT100 devices. Devices can be provided for Lux, UV, Air Velocity and more – refer to Eltek Ltd or your local Eltek distributor.

# GenII Logmitter Specification

## Common device specification

### Operating environment

Temp: -5 to +55°C , RH: 0-95% non condensing  
 Environmental rating IP50  
 (Secondary enclosure available for outdoor use, rated IP60)

### Configured as a transmitter

Frequency 434.225MHz (other frequencies are available)  
 Compliant to EN300-220-2  
 Antenna connector SMA socket (Tx mode only)  
 Antenna type Compressed spring L= 70mm,  
 RF Power 10mW ERP

### Configured as a standalone data logger

Logging interval: 1 second to 23h59m59 seconds

Memory is expressed in "readings".

One channel enabled is 87,000 readings  
 Two channels enabled is 104,000 readings  
 Three channels enabled is 112,000 readings  
 Four channels enabled is 118,000 readings  
 Memory Mode: Interval mode only

Channel allocations can be renamed using Eltek software. For example, Channel 1 can be configured to appear as "Main Gallery"  
 Number of recording runs: 1

## GenII System specification

### RC250 - Receiver unit

**Ideal for data acquisition or BMS control.**

Power supply 12VDC or 110/250VAC using power supply included)  
 Usable sensitivity -117dbm (super sensitive)  
 Antenna 165mm whip or light weight dipole antenna  
 LCD Last valid transmitter identity and signal strength and Battery status gauge.  
 Communications Modbus (RS232), optional RS485 module  
 Max number channels 160

### RX250AL - Receiver / Logger

**PC independent receiver and logger with battery backup and alarms. Can be connected via ethernet network for large sites.**

Power supply 12VDC or 110/250VAC using power supply provided  
 Usable sensitivity -117dbm (super sensitive)  
 LCD / button panel Start/stop logging and metering  
 Capacity 250 channels across 125 transmitters  
 Memory (readings) 250,000 (options for 500,000, 1,000,000 or 2,000,000 readings)  
 Communications RS232 direct. GSM (restricted) and Ethernet optional  
 Alarms Local (contact closure in alarm) and SMS (text) alarm options

### SRV250 - Receiver / Logger

**Real time access to data globally.**

Identical to RX250AL Receiver / logger but with built-in GPRS communications.  
 Data is uploaded in real time as raw data or CSV to either one of the following:

- 1) A host PC using a fixed public IP address
- 2) A Windows Cloud Server (e.g. Amazon EC2) and then downloaded to a local PC running Darca Heritage
- 3) A Windows Cloud Server (e.g. Amazon EC2) and then viewed by third party software or app

SMS (Text) alarm messaging is standard.

### RP250GD Repeater

Range can be easily extended using one or more self contained RP250GD repeater.  
 RP250GD is mains operated with built-in 24 hour battery backup.



Due to our policy of continuous improvement specifications may change without prior notice. Eltek believes that all information declared is correct at the time of issue, no liability is accepted for errors and omissions.

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**Guarantee** Equipment manufactured by Eltek is guaranteed against faulty materials or workmanship for three years. For repairs carried out under guarantee, no charge is made for labour, materials or return carriage.



# Eltek

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