

MEETINSTRUMENTATIE

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The GenII MS "Mini Squirrel" is a new series of compact stand-alone data loggers.

The first release of the GenII MS "Mini Squirrel" series is intended for RH, temperature and CO₂ applications. The dataloggers are of rugged construction, battery operated and ideal for short or long term environmental monitoring.

Mini Squirrel is ideal for monitoring smaller spaces such as galleries or laboratories. A feature of the Mini Squirrel is ease of deployment and data download. A top panel mounting jack socket is provided for data download.

The scrolling LCD display provides real time sensor values and screen prompts inform the user that the logger is set up and ready to go as required.

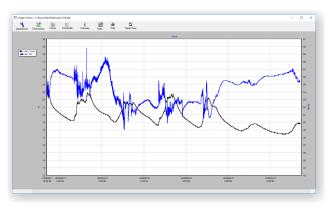
Eltek's Darca Lite Windows software is designed for use with the MS Mini Squirrel, enabling the user to configure, download data, and graph historic data quickly and easily.

MS Mini Squirrel loggers



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

Darca Lite Software



Eltek's Darca Lite software allows configuration, download and analysis of Mini Squirrel devices.

- Fully compatible with Darca Plus data
- · Detailed graphing of saved data
- Print graphs
- View data in real time
- Export data as CSV
- Download data with or without stopping logging
- Software updates on Eltek website

Common device specification

Operating environment

Temperature: -5 to +55°C , RH: 0-95% non condensing Environmental rating: IP50

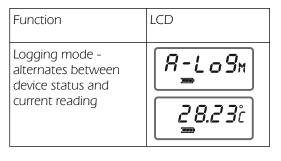
(Secondary enclosure available for outdoor use, rated IP60)

Data storage

Logging interval: 1 second to 24 hours Memory capacity 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

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

LCD display example



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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.

Input specification

Parameter	Measurement Range	Accuracy	Resolutio n
MS10	I	1	1
RH	0-100%	±2% (10 to 90%) RH	0.1%
		±4% (0 to 100%) RH	0.1%
Temperature	-30 to +65°C	±0.4°C (+5 to +40)°C	0.1°C
		±1.0°C (-20 to +65)°C	0.1°C
		±1.5°C (-30 to -20)°C	0.1°C
MS13E and MS14E: RHT10E RH and temperature input			
RH	0-100%	±2% (10 to 90%) RH	0.1%
		±4% (0 to 100%) RH	0.1%
Temperature	-40 to +120°C	±0.4°C (+5 to +40°C)	0.1°C
		±1.0°C (-20 to +80°C)	0.1°C
MS14E: Thermistor temperature input			
Temperature	-40 to +70°C	±0.2°C (-15 to +40)°C	0.1°C
		±0.4°C (-29 to +65)°C	0.2°C
		±0.6°C (-36 to +70)°C	0.3°C
		±0.8°C (-40 to -36°C)	0.4°C
Eltek thermistor accuracy	±0.1°C (-0 to +70)°C		
MS47AC and M	S47B	1	
RH	0-100%	±2% (10 to 90%) RH	0.1%
		±4% (0 to 100%) RH	0.1%
Temperature	-30 to +65°C	±0.4°C (+5 to +40)°C	0.1°C
		±1.0°C (-20 to +65)°C	0.1°C
		±1.5°C (-30 to -20)°C	0.1°C
CO ₂	0-5000ppm	<±50ppm +3% of measured value over the range -10 to +50°C	
Temperature dependence typically 2ppm CO2/°C over the range 0 to +50°C. Pressure dependence is 0.14% of measured value/mBar deviation. The CO2 built in sensor is functional at -20°C, however the accuracy cannot be quantified. MS47AC: CO2 value is updated every 15 seconds MS47B: CO2 value is updated every 300 seconds.			

Optional battery pack for MS47B

The EL47BATT battery pack extends battery operation to greater than 6 months.

The pack is used in place of the 8 x LR6 battery pack and comprises 2 x lithium thioryl chloride non-rechargeable batteries on a carrier board with self-resetting fuse. The pack is rated as 3.6Ah.

QM S. **ISO 9001**

REGISTERED FIRM

Eltek

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