

## Part # CM-000133 M-Tag Data Loggers

Used as spot verification tools and for mapping and thermal studies, Mesa's M-Tag data loggers are the ideal solution for several industries and situations. With a variety of options and configurations, these units pack a large amount of capabilities into a small, affordable form factor.



The M-Tag P/N CM-000133 Humidity & Temperature Recorder measures and stores up to 8000 sets of high resolution humidity and temperature readings over a measurement range of 0 to 100%RH & -40 °C to +85 °C (-40 °F to +185 °F).

- A real time clock provides date/time stamps for each temperature and humidity reading pair.
- Push-to-start button with optional delay or a specific time & date.
- Complies with industry standards.

### Key Features:

- Record high resolution Temperature & Humidity readings simultaneously
- Rapid download - Typically less than 5 seconds data download
- Alerts for humidity & temperature
- Replaceable air filter

Using the M-Tag Interface Cradle and available companion software, M-Tags are easily set-up for recording including delayed start, sampling interval, number of readings and configuration of conditions to activate the 'ALERT' indicator. M-Tag software also provides facilities for charting, zooming, listing data statistics and allows exporting the data to other applications such as MS Excel once the data has been downloaded.

### Specifications

<b>Humidity Measurement Range</b>	0 ~ 100%RH but with limitations as detailed in Humidity Measurement Operating and Storage conditions below.	
<b>Temperature Measurement Range</b>	-40 °C to +85 °C (-40 °F to +185 °F)	
<b>Humidity Resolution</b>	Better than 0.1%RH	
<b>Temperature Resolution</b>	Better than 0.1 °C or 0.1 °F	
<b>Accuracy</b>	<p>Rated Relative Humidity reading accuracy @ 25°C</p>	<p>Rated temperature reading accuracy</p>

# M-Tag Data Loggers Specification Sheet

<b>Capacity</b>	8000 pairs of humidity & temperature readings (32K bytes memory)
<b>Sampling Frequency</b>	Adjustable, 30 sec to several hours
<b>Logging Start Options</b>	Push button start or specific date & time.
<b>Recording Indication</b>	Flashing 'OK' indicator / flashing 'ALERT' indicator.
<b>Download Time</b>	Typically with full memory (8000 readings) in less than 10 secs depending on computer or readout device used.
<b>Environmental</b>	IP61 (when hung or mounted vertically)
<b>Power Source</b>	3V LiMg battery
<b>Battery Life</b>	2 ~ 3 years of normal use (based on 15 minute logging, download data monthly).
<b>Size</b>	86 mm (H) x 54.5 mm (W) x 8.6 mm (T)
<b>Weight</b>	35 grams
<b>Case Material</b>	Polycarbonate
<b>Other Features</b>	<ul style="list-style-type: none"> <li>• Logging start by push button or specific date/time start</li> <li>• Optional clearing of alert indication by push button (places inspection make at same time).</li> <li>• Download inspection mark recorded in M-Tag memory every time M-Tag is downloaded.</li> <li>• 'Prestart' fail-safe logging (records temperature data even if not started)</li> <li>• Low Battery indication in software.</li> <li>• Comprehensive Alert indicator configuration.</li> </ul>