

Real Time Chart Recording

MadgeTech loggers are typically used for standalone logging, where the logger is started in the software, disconnected to record, and later reconnected to stop the device and download the data. In addition to this standard functionality, almost all MadgeTech loggers support Real Time Chart Recording within the MadgeTech Standard graphing software.

With Real Time Chart Recording it is possible to utilize the sensors within the logger to collect and analyze information in real time. This will update the Graph, Data, and Summary tabs within the software with each reading taken.

Real Time Chart Recording is a great method to get information immediately. For example, it can be used to verify that the device is properly recording, wired correctly to an external sensor, or that it is within calibration. When running a logger in Real Time Chart Recording mode it is also possible to configure both Screen Alarms and Email Alarms, which can alert users when a logger has recorded values above a specified threshold.

There are a few drawbacks of Real Time Chart Recording that should be considered. The first and most important is the impact on battery life. Communicating with the PC uses a significant amount of current, so a logger used in real time will have only a small fraction of the battery life that same logger would have in standalone mode. Another drawback is that with older interface cables the connection to the computer may add a source of noise to some types of loggers, which may negatively affect the quality and accuracy of the readings. It is also important to note that if only Real Time Chart Recording no data is being saved to the logger's internal memory, so if the MadgeTech software is closed or the computer shuts down or crashes, it is likely data will be lost. It is possible to start the device in standalone mode and run Real Time Chart Recording concurrently to avoid this problem.

To summarize, Real Time Chart Recording is great for short term recordings and checking equipment, but not as well suited to long term recording as standalone logging. For a full guide to Real Time Chart Recording, select Contents from the Help menu, and type Real Time Chart Recording into the Index.

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MADGETECH DATA LOGGER SOFTWARE

