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Data Logger - Used for High Efficiency by Julia Roger

Article published on June 22nd 2012 | Computer

One of the most important terms within the scientific community is that of data logging. Data cataloguing or logging can simply be understood as a process in which a computer is used to collect data by means of sensors. This process is followed by the careful analysis of this data, which can later be saved for re-production. Apart from this, the process through which data is collected and analyzed by a computer is also known as Data logging. The kind of information acquired by a data logging system may be light intensity, sound frequency, temperature, etc.

Although, a human being is capable of doing almost anything, a logger is used when it is required to collect the information faster and more accurately. As per the technical terminology, any device, which can store data, is known as a Datalogger. This broad category includes many devices like serial communication systems or plug-in boards, which help in acquiring data and work in tandem with a real time system for recording data. However, with the advent of technology, an ideal logger is considered a standalone device by most of the instruments manufacturers. This device should be able to read different kinds of electrical signals and store them in its internal memory in the form of data along with a provision of downloading this data to a computer at any point of time.

As against the different kinds of data acquisition devices, a data logger is quite advantageous in the sense that its working is not dependent on the availability of a computer. In addition to this advantage, you can find a information logger in a wide variety of sizes and shapes. A logger may be simple and economical with a single channel fixed function or it can even be a more powerful device, which is programmable and capable of handling a wide variety of inputs.

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Article Keywords:
Data logging, Datalogger

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