

## Data Logger

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It is very difficult to enumerate all the applications of such a small electrical unit as Data Logger. Its main function is – recording of measurements which are conducted with certain intervals during some period of time. Even if not in operation, data logger can save the recorded information for a certain time.

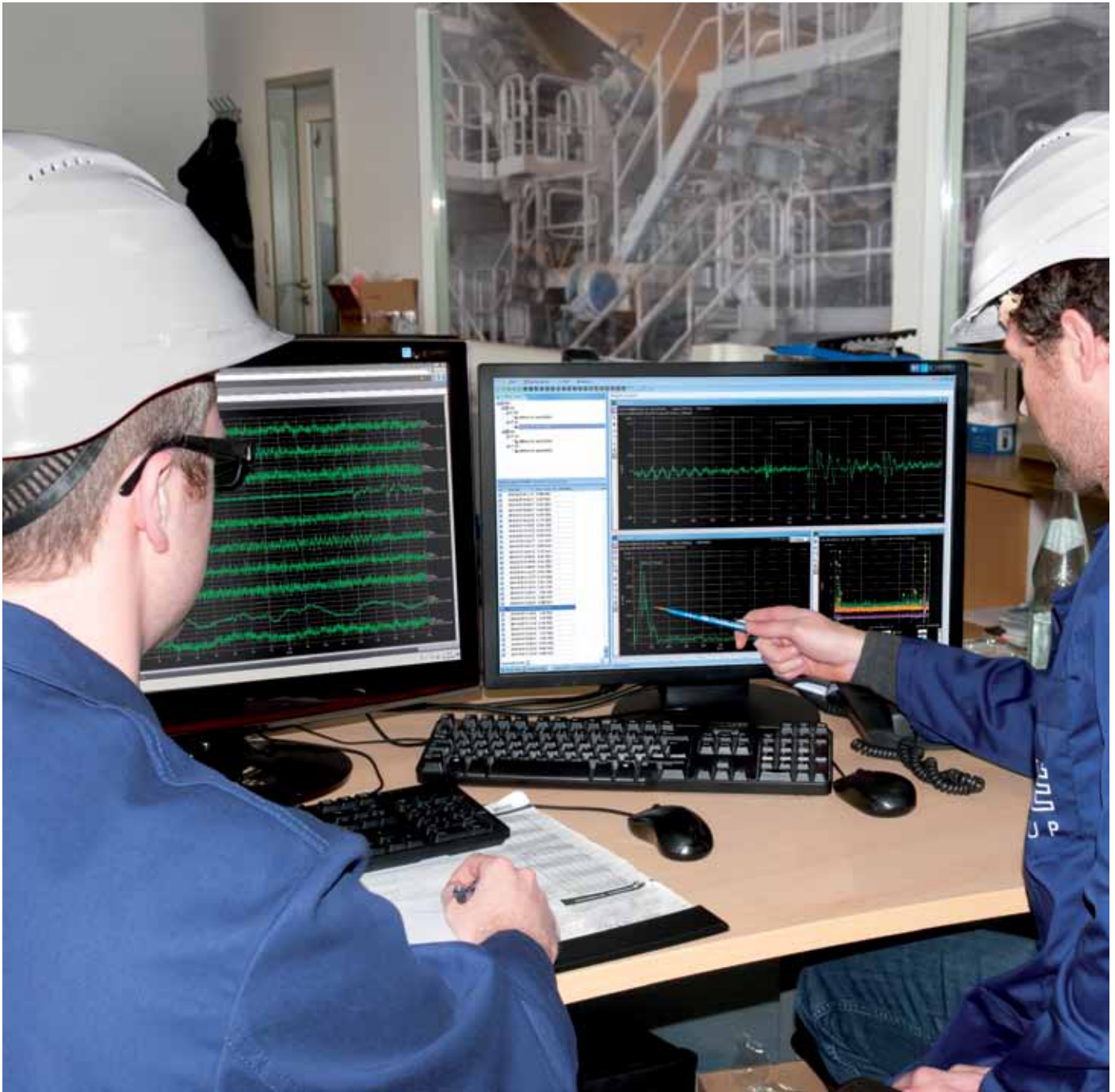
As a rule it is a very small device reminding a small box that has got microprocessor and can have either one or a few sensors. The sensors can be of two types – internal and external. Because of that Data logger may even turn into a multichannel device collecting information. The logger with internal sensors saves the measurements data in its immediate location. The external sensors make it possible to record the data that come from a certain distance from the logger. Such stand-alone loggers regularly need the connection to the PC through the USB-interface. Before the start of the operation, Data Logger must be connected to PC – the purpose is to give in the necessary parameters and start the logger. Then it should be disconnected, and depending on the purpose of measurements it should be placed outside, inside or even under water. Nowadays there is such a version as Bluetooth data Logger, then they do not need extra connection to PC and the data (i.e., humidity and pressure) can be sent directly to the mobile device.

One more kind of the data logger is a web-based device. It means that due to a few external sensors the measurements can be transmitted to WEB to a particular server. That gives a possibility to check the data any time without immediate proximity to the data logger. In

addition, if there are a few remote from each other points, it is possible to get the information from all of them to one central computer without getting information in parts from each logger in particular.



Witness of certain materials, humidity, level of moisture, air or water temperature, pressure, voltage, wind intensity, underwater measurements – all that and much more can be the inputs for which Data Logger may be programmed. The device can be used outside as well as inside and its compact size makes it extremely convenient and very often plays a decisive role.



One of the valuable features of Data Loggers is that they work from battery and that makes it possible to use them in any environment and for a necessary period of time, without extra charging and using adaptors. Some of them have got a possibility for external charge. Battery life depends on the number of samples that have been programmed before the logger was started. It is also important to calculate the number of samples and frequency of measurements in accordance with the memory capacity of the device. The same factors influence for how long the data can be stored in the data logger before it is transmitted to the computer.