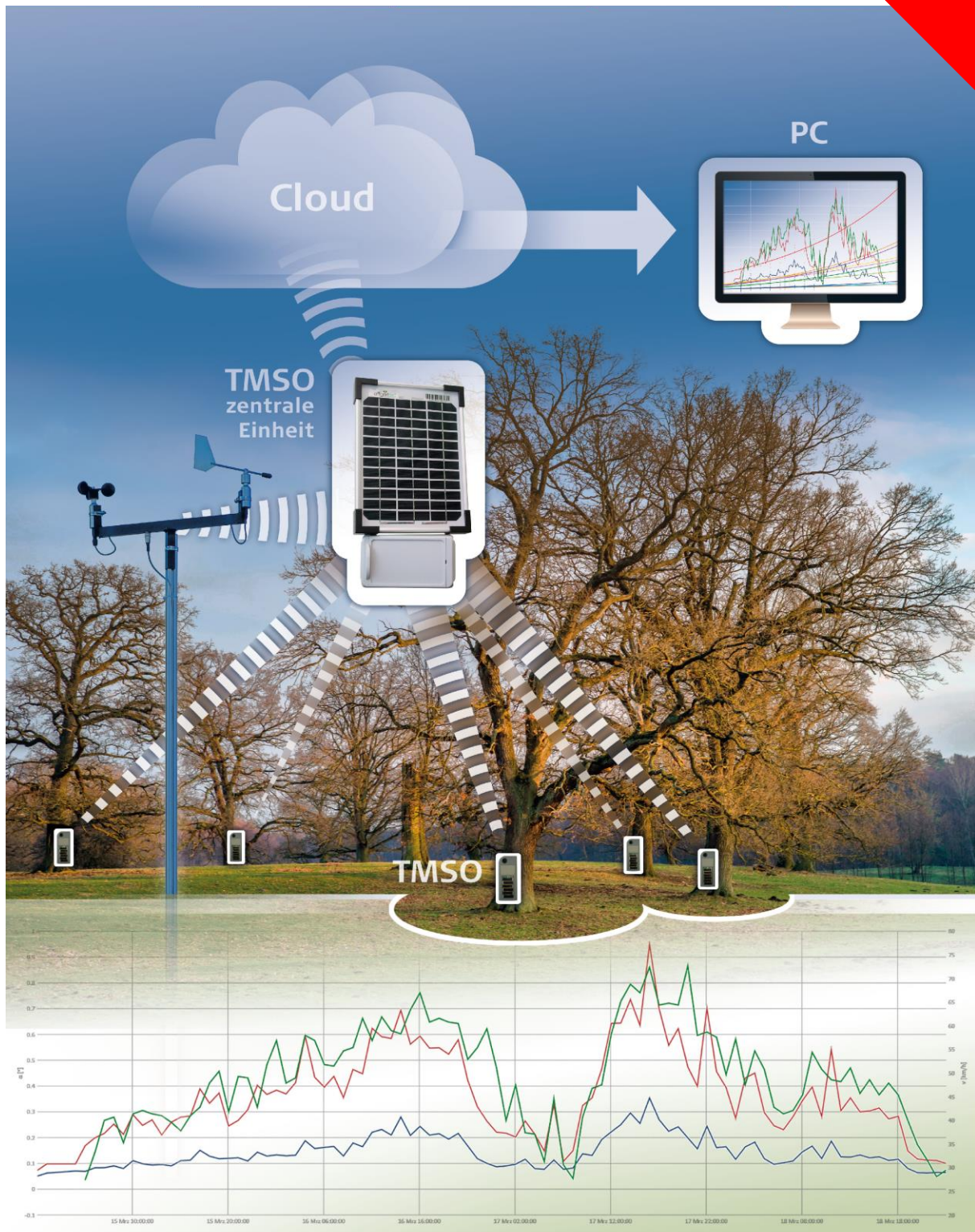


Tree Motion Sensor Online

New



PROMAT

PiCUS Tree Motion Sensor Online

Cloud-based remote monitoring system for tree motion

PiCUS Tree Motion Sensors enable for the first time the (long-term) measurement of tree movements under natural conditions. For extended fields of application, TMS Online is now available, with even more extended runtimes and the possibility of remote query of the results.

The system is based on a number of sensors which, just like the well-known TMS, measure tree movements. However, this measurement data is not stored but filtered and relevant measured data is sent wirelessly to a transmission module. From this module, the collected data is sent to a dropbox cloud at certain time intervals, together with a status message from the system. Here, the user can access the data conveniently and easily from any workstation with an Internet connection and process and evaluate the data with the included TMS software. Wind data can be obtained and used from any source.

At the beginning of a measuring period the system is set up on site using an app. From this point on it can work autonomously on site until the energy supply is exhausted. The command to start the actual measurement and the associated data transmission is given by the user, depending on the wind forecast. The transmission can be done remotely via PC and cloud or on-site with a mobile phone.

All components of the system use solar energy to extend the runtime so that under good environmental conditions a runtime of one year or more can be achieved. Even without charging by sunlight runtimes of about half a year are achieved.

The standard extent of delivery includes ten sensors, a central transmission unit, four charging trays and all necessary accessories and tools. The entire system is packed in a rugged waterproof case. Evaluation software is also included and the app is available for free.

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