



# Dendro-LOG

## Dendrometer Data Aquisition



**DENDRO-LOG** is a small datalogger, well designed to log dendrometer data from sensors based on 50kOhm Potentiometer principle.

Dendro-Log is designed for extended temperature range to measure accurate data the whole year.

Dendro-Log is a very low powered logger. The internal 6V battery will run a 4-channel system for a full year.

Data can easily be downloaded via RS232 using Logstar or CLOG-configuration software.

CLOG-configuration software is used to configure logintervall, preset-time before start logging, clock, set identifier.



Dendro-LOG



dendrometer typ DR sensor installed



dendrometer Typ DD

Using Option FE (FullEdition) to expand memory, data transfer can be done via MMC card:

Take a pda to load data from MMC to pda and use the pda as a data shuttle home or just exchange the MMC card at your site and download data with a card reader at your office PC.

Dendro-LOG data format is compatible to LOGSTAR. LOGSTAR (LoggerStationArchive) offers the option to combine several stations again to one large "combi-station" and moves all data in one Excel-sheet for further handling.

Use Option T (Transienten mode) to reduce data volume: you can log automatically when one of your channels changes more then a user defined threshold. When there is no change in data detected once a day one data recored is written.

### Technical Data:

Channel input range: 0-50kOhm 3-wire-potentiometer  
Resolution: 0.1mV  
example for sensors with 11mm range: resolution <math><1\mu\text{m}</math> Accuracy: 2 $\mu\text{m}$

Power Supply: 6Vdc (battery included in housing)

Memory: 2500 records ( -> 10min logintervall = 17 days)  
Optional: memory card expansion to 64 MB

Logging interval: 1, 2, 5, 10, 20, 30, 60 min, 2, 3, 4, 6, 8, 12, 24 h

Housing: Alu housing, 180x180x100mm, 2500g Weather proof IP65

Communication: RS232, 19200 baud, 8 databit, no parity, 1 stopbit

Power consumption: 35 $\mu\text{A}$  when sleeping, 30mA when awake