

Data Logging

ECOMATIK dendrometers are compatible with all popular data loggers (e.g. Campbell, Delta-T, DT80). We give you support for connecting our dendrometers with the data loggers.

ECOMATIK provides the dendrometer data logger DL18 which covers all features and logging options relevant for precise and efficient dendrometer measurements



The DL18 is a battery powered, weather proof, 4-channel data logger. It runs on an internal battery more than one year. It is suitable for long-term monitoring tree growth.

Technical specifications

Name	Dendrometer Data Logger (DL18)
Memory	1 900 000 readings If you connect 4 dendrometers, and collect data every 5 minutes, the memory will store data of more than 3 years
Resolution	0.2 µm for Dendrometer types: DD-L, DD-S, DC1, DR, DV, DRO 0.3 µm for Dendrometer types: DC2, DF 0.5 µm for Dendrometer type: DC3
Accuracy	± 0.1% of reading
Interface	USB interface to PC
Channel	4, for connecting up to 4 dendrometers
Logging Interval	1 sec. to 18 hours, user selectable
Power supply	Two AAA batteries, user replaceable. New batteries will typically last one year with a logging rate of 1 minute and a sampling interval of 15 seconds or greater.
Environment	Suitable for outdoor conditions Temperature: -20 to +70 °C (-4 to 158 °F); Air humidity: 0 to 95% RH (non condensing)

Worldwide users of our dendrometers in more than 40 countries

Universitat Politècnica de Catalunya, Barcelona
 Chinese Academy of Forestry, Beijing
 Swiss Federal Institute for Forest, Snow and Landscape, Birmensdorf
 Universität Bonn, Dendroökologisches Labor, Bonn
 Deutsche Forschungsgemeinschaft, Bonn
 DBIO-APNA, Brussels
 Vrije Universiteit Brussel, Brussels
 INRA-EPHYSE, CESTAS Cedex
 Brandenburgische Technische Universität, Cottbus
 Debrecen University, Debrecen
 Johann Heinrich von Thünen-Institut, Eberswalde
 University of Erlangen-Nuremberg, Erlangen
 University Duisburg-Essen, Essen
 Technische Universität München, Freising
 Bayerische Landesanstalt für Landwirtschaft, Freising
 Justus-Liebig Universität, Gießen
 Thüringer Landesanstalt für Wald, Jagd und Fischerei, Gotha
 Ernst-Moritz-Arndt-Universität, Greifswald
 Universität Hamburg, Hamburg
 Leibniz Universität, Hannover
 Universität Innsbruck, Innsbruck
 RFW Innsbruck

Max-Planck-Institut für Biogeochemie, Jena
 University of Western Ontario, London
 Lund University, Lund
 Johannes Gutenberg University Mainz, Mainz
 Ludwig-Maximilians-University Munich, München
 Helmholtz Zentrum München, Neuherberg
 Tulane University, New Orleans
 Lamont-Doherty Earth Observatory of Columbia, New York
 USDA Forest Service, Olympia
 Norwegian Univ of Life Sciences, Oslo
 University of Oxford, Oxford
 Helmholtz-Zentrum Potsdam, Potsdam
 Beuth Hochschule für Technik Berlin, Potsdam-Bornim
 CSIR Natural Resources and the Environment, Pretoria
 Direction de la recherche forestière, Québec
 McGill University, Québec
 O3HP, St Paul-lez-Durance
 National Taiwan University, Taipei
 Bayerisches Amt für forstliche Saat- und Pflanzenzucht, Teisendorf
 Technische Universität Dresden, Tharandt
 University of Aarhus, Tjele
 University of Arizona, Tucson