

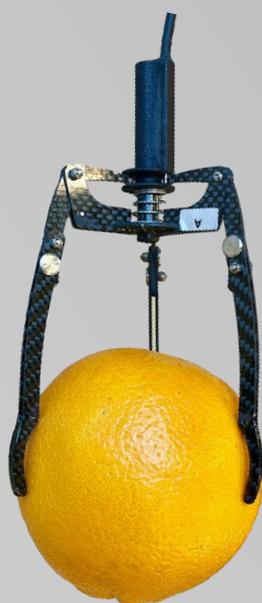


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Dendrometers

Accurate growth insights for smarter cultivation.



Fruit dendrometer

General description

The fruit **dendrometer** is used to measure changes in fruit diameter over time. There are **2 models** with different measuring ranges: S and M, suitable for different uses.

Product features

- **Quick and easy to apply:** Directly onto the fruit.
- **Fruit protection: Attachment pressure is optimized to avoid altering or deforming the fruit, ensuring gentle but effective attachment.**
- **Weatherproof:** Designed to withstand harsh conditions, including winds of up to 60 km/h.
Discreet: The green color of the device blends into the landscape to avoid attracting attention, reducing the risk of theft.

Specific data

Model S (small fruits)

Measurement range	9 mm to 42 mm
Dimensions	Ø 70 mm x h : 100 mm
Weight	50 g

Model M (medium fruits)

Measurement range	19 mm to 90 mm
Dimensions	Ø 70 mm x h :150 mm
Weight	55 g

General information

Model S & M

Sampling	1 measurement every 15 minutes
Materials	Carbon fibre
Operating temperature	-20 °C to 60 °C

Diameter

Precision	± 0,05 mm
Resolution	0,01 mm

Temperature

Precision	± 0,05 mm
Resolution	0,01 mm
Measurement range	-20°C to 60°C

Trunk dendrometer

Generale description

The trunk **dendrometer** measures daily changes in the diameter of a trunk, mainly as a function of irrigation. The device is designed for quick and easy installation.

Product features

- **Compatibility:** Designed for trunks from 3 to 15 cm in diameter.
- **Simplified installation:** Quick to install thanks to an adjustable stainless-steel cable around the trunk.
- **Extendable:** An accessory extends the measurement range by 20 cm in circumference, i.e. 6 cm growth in diameter.
- **Discreet and robust:** The green-colored device blends into its surroundings to remain unobtrusive on the trunk, while offering weather resistance.
- **Can be used on all shafts:** On request, we can supply a cable suitable for larger circumferences.

General information

Dendrometer sensor

Dimensions	100 x 12 x 12 mm
Weight	60 g
Materials	Aluminium
Protection class	IP 66
Operating temperature	-40°C to 60°C

Sensor data

Diameter

Sampling	1 measurement every 15 minutes
Measurement range	20 mm circumference
Precision	± 0.05 mm
Resolution	0.01mm

Temperature

Sampling	1 measurement every 15 minutes
Measurement range	-20°C to 60°C
Precision	± 0.3°C
Resolution	0.1°C

Extenso 500

General description

The **Extenso 500** is a cable-based linear displacement measuring instrument suitable for various applications in botany, civil engineering, and geology.

Product features

Uses:

- Measuring **variations in tree trunk diameter** (beyond the capacity of a conventional dendrometer).
- **Monitoring cracks** in buildings.
- **Tracking** rock movements and **landslides**.

How it works:

- Sensor screwed onto a fixed point with a cable attached to the moving point.
- Adjustable cable extension between **250 and 1000 mm**.

Simplified installation:

- Quick attachment thanks to a weather-resistant **stainless-steel** cable.

Discreet et robust:

- The product offers weather resistance.

General information

Dendrometer sensor

Dimensions	25 x 27 x 250 mm
Materials	Aluminum, Stainless Steel
Usage	Outdoor fieldwork over several years
Operating temperature	-40°C to 60°C

Sensor data

Circumference

Sampling	1 measurement every 15 minutes
Measuring range	250 to 1000mm extension
Accuracy	± 50 µm
Resolution	0.01 mm

Temperature

Sampling	1 measurement every 15 minutes
Measuring range	-20°C to 60°C
Accuracy	± 0.3°C
Resolution	0.1°C

Dendro 400

General description

The **Dendro 400** is a measuring instrument used to **monitor tree growth over the long term**.

Product features

Uses:

- Daily monitoring of tree growth over several years
- Assessment of the most suitable species based on terrain and climatic conditions
- Assessment of the increase in the volume of timber in a forest

How it works:

- Measurements taken **once a day** (other frequencies available on request) of changes in **trunk circumference**, using a cable wrapped around the trunk
- Data (length and temperature) is recorded in the electronic box connected to the sensor or transmitted in real time to a platform, depending on the customer's choice
- Device powered by a **lithium battery**, offering several years of battery life

Simplified installation:

- Installs in minutes **without tools**

General information

Dendrometer sensor

Dimensions	20 x 20 x 260 mm
Usage	Outdoor work in natural environments over several years
Operating temperature	-40°C to 60°C

Sensor data

Circumference

Sampling	1 measurement per day
Measuring range	400 mm maximum extension
Resolution	0.05 mm

Temperature

Sampling	1 measurement per day
Measuring range	-20°C to 60°C
Accuracy	± 0.3°C
Resolution	0.1°C