

Dendrometer Trunk Radius



A highly precise sensor that continuously measures the tree trunk radius changes. The daily changes and variations are associated with the tree water status



/ Benefits & Features

- Cost-effective solution
- Easy installation
- Specially designed for tree trunks with medium to very large diameters
- Suitable for long-term use in outdoor conditions
- Limited maintenance

/ Technical Specifications

Operating Specifications	
Suitable for plant size	Diameter > 5 cm
Range of the sensor	11 mm
Accuracy	Max. \pm 4.5% of reading
Temperature coefficient of the sensor	<0.2 $\mu\text{m} / ^\circ\text{C}$ in the whole range
Linearity	<1%
Environment	Outdoor condition: -25 to 70°C air temperature, 0 to 100% relative air humidity
Weight of the sensor	13 g without cable
Power supply	Stabilized Vex 0.5 – 10 VDC, power consumption practically zero
Material	Stainless steel and Aluminium
Cable length	5 m

→ Wiring Diagram

Terminal	Wire
+	● White
Al	● Brown
-	● Black

→ Care & Maintenance

- Do not immerse the sensor in water, or install the sensor below a long-lasting snow cover (The sensor is protected from rain, but it is not waterproof)
- Avoid any tension between the cable and sensor during handling and operation
- Depending on the growth rate of the tree, the sensor should be reset after some months or years of measurements. When the output approaches 11 mm, the sensor needs to be reset

→ Kit Contents

- 1 Sensor with 5 m cable
- 1 Special screw for fixing the frame onto the plant stem
- Product sheet
- Installation instructions

→ Catalog Numbers

Description	Catalog Number
DENDROMETER TRUNK RADIUS – ECOMATIK	74730-000091

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