

# Dendrometer Small Plant Diameter



A highly precise sensor that continuously measures the diameter changes of small plants. The daily changes and variations are associated with the tree water status



## / Benefits & Features

- Cost-effective solution
- Fast and toolless installation
- Suitable for long-term use in outdoor conditions
- Enables real-time monitoring of your plant status
- Limited maintenance

## / Technical Specifications

Operating Specifications	
Suitable for plant size	Diameter 0-5 cm, suitable for small plants
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 $70^\circ\text{C}$ air temperature, 0 to 100% relative air humidity
Weight of the sensor	15 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
AI	● 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

- 1x Sensor body with two knurled-head nuts to lock quick-mount frames, standard sensor cable length 5 m
- 2x Quick-mount frame for two different diameter ranges, 0 to 2.2 cm or 1.8 to 5 cm
- 2x Pieces UV-resistant perforated rubber belt to fix dendrometer at the stem/branch
- 4x Pieces UV-resistant rubber band (3x 20 cm, 1x 50cm, reusable) to fix the sensor cable at the branch/stem for strain relief
- Product sheet
- Installation instructions

## → Catalog Numbers

Description	Catalog Number
DENDROMETER SMALLPLANT DIAMETER-ECOMATIK	74730-000090

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