

Specifications

Minimum Stem Diameter:
8 cm

Maximum Stem Diameter:
no limit

Operating range:

- Temperature: 30 to 60 °C
- Humidity: 0 to 100 %

Increment Range: 65 mm

Resolution: 1 μ m

Linearity: 2% of full scale

Temperature Measurement Accuracy: +/- 2 oC

Operation in active mode:

- Power supply voltage 4.6 to 16 Volts
- Current consumption 1 mA
- Sensitivity 0.0254 mm/mV
- Maximum load 5 mA

Operation in passive mode:

- Voltage divider resistance 5,000 ohm typically
- Maximum voltage 15 Volts (Vb)
- Sensitivity 64 mm @ Vout = Vb (0 mm @ Vout = 0)

Tightening Strength: 15 to 20 N

Weight: 250 gm

Tape Spool Length: 15 m

Tape Spool Width: 12 mm



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DR26 Band Dendrometer

Whole tree water relations research has just become easier and more accurate. The data collected is of the highest accuracy with a measurement resolution of 1 micron in stem diameter change. Such resolution accurately allows for interpretation of diurnal stem fluctuations in response to climatic and micro-environmental effects in addition to long term growth.

Diurnal stem fluctuations data can then be combined with sap flow data from the same tree to correlate water use to further understand functional hydrology of the tree and or specific treatment effects.

Set Up

The sensor by default is set to active mode. That means the sensor signal output is independent to power supply voltage. It fits to most of common data loggers. If required the sensor can be set to a passive mode by changing the DIP Switches inside the sealed enclosure.

Wiring Details:

+Vb	brown
- Vb	green
Signal Hi	yellow
Signal Lo	white



Ordering Information

DR26	Band Dendrometer
DBTAPE	Dendrometer Tape 15 m spool



Note: For an autonomous data logging solution, enquire about the DRL26 Logging Band Dendrometer.