

DBM80 Manual Band Dendrometer

Manual band Dendrometers, or increment gauges, are used extensively in commercial forestry and forest research. They are a very reliable and low cost method of accurately measuring and monitoring tree growth rates. In many applications tree growth rate data is sufficient on its own, such as in commercial forest mensuration. Tree growth rate data can also be very useful to combine with sap flow data to correlate water use with tree growth. If you wish to compare diurnal stem fluctuations and correlate this against diurnal sap flow patterns it is recommended that you consider one of ICT International's continuous logging dendrometer options.

- Low Cost
- Accurate Laser printed scale
- High resolution
- Reusable with new tape
- No Upper stem diameter limit
- All stainless steel components

Operating Instructions

The DBM80 band Dendrometer uses a hook at the end of a fixed scale and a second hook soldered to the end of the measuring spring on the sliding scale. The steel band tape is inserted into the end of the first hook and wrapped around the circumference of the tree. The end of the steel band tape is then cut and inserted into the end of the second hook on the sliding spring scale, making sure to adjust the measurement scale to zero before bending the tape to hold the dendrometer in position. As the tree grows the sliding spring scale will extend along the fixed scale and increases in circumference can be manually read in 0.1 mm increments.



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Specifications

Minimum Stem Diameter:	8 cm
Increment Range:	0 – 80 mm
Resolution:	1 mm
Strength:	5 to 15 N
Weight:	10 gm
Tape Spool Length:	15 m
Tape Spool Width:	12 mm

