



Implexx

Digital Environmental
Sensing

Dendrometers for Trunks, Stems & Fruits

MODELS DE-1T / SD-5T / SD-10T / FI-ST / FI-MT / FI-LT



A digital,
SDI-12 sensor for
the precise
measurement of:



Trunk, stem and fruit growth

Carbon allocation and biomass accumulation

Stress responses to drought and water deficit

Irrigation management and research

Maximum Daily Shrinkage (MDS) and Daily Growth (DG)

Dendrometers for Trunks & Stems

MODELS DE-1T / SD-5T / SD-10T

High Precision LVDT Point Dendrometers



DE-1T Trunk Dendrometer

Ideal for trunks/stem diameters larger than 6 cm



SD-5T Small Stem Dendrometer

Ideal for stem diameters between 0.5 and 2.5 cm



SD-10T Stem Dendrometer

Ideal for stems diameters between 2 and 7 cm

Dendrometers for Fruits

MODELS FI-ST / FI-MT / FI-LT

Accurate and Reliable LVDT Point Dendrometers



FI-ST

Measure fruit diameters
of 0.7 to 4.5 cm



FI-MT

Measure fruit diameters
of 1.5 to 9 cm



FI-LT

Measure fruit diameters
of 3 to 16 cm

Implexx

high-performance sensors

The Implexx precision dendrometers, designed for scientific research and irrigation management, use linear variable differential transformer (LVDT) technology to measure micron-scale changes in trunk, stem, and fruit diameters.

These high-performance sensors are ideal for studying plant and fruit carbon allocation, growth dynamics, stress responses, and optimising irrigation strategies.

Feature	DE-1T	SD-5T	SD-10T	FI-ST	FI-MT	FI-LT
Suitable diameter	> 6 cm trunk or stem	0.5 to 2.5 cm stems	2 to 7 cm stems	0.7 to 4.5 cm fruits	1.5 to 9 cm fruits	3 to 16 cm fruits
Measurement Resolution (mm)	< 0.005	< 0.002	< 0.002	< 0.02	< 0.05	< 0.1
Measurement Accuracy	Less than 3 %					
Temperature Effect	< 0.02% total stroke /					
Output	SDI-12 (voltage or 4-20mA available upon request)					
Input	5 to 24 VDC					
Measurement Time	0.3 seconds					
Operating Temperature	0 to 50					
Protection	IP64					
Cable Length	5 m (standard), maximum 75 m					
Warranty	1 year					