

# Diameter Dendrometer Type DD-S

Technical Specifications



Name of the Sensor	Diameter dendrometer small	
	Type DD-S1 (former name DD-S)	Type DD-S2 & DD-S2W (encapsulated)
Use area	slow/normal growing, woody and herbaceous species standard mounting frame	fast, toolless installation
Suitable for plant size	Diameter 0-5 cm	
Range of the sensor	11 mm	
Resolution	The resolution of the sensor itself is infinite. The resolution of readings is determined by connected data logger, e.g.: CR1000 (differential w/i): 1.5 µm Dendrometer logger DL18: 0.2 µm	
Accuracy	Dendrometer dependent: max. ±4.5% of reading (stable offset) Logger dependent, e.g.: CR1000: ± (0.04% of reading +4.4 µm) Dendrometer logger DL18: ±0.1%	
Temperature coefficient of the sensor	< 0.2 µm / °C in the whole range	
Linearity	<1%	
Environment	Outdoor condition: -25 to 70°C air temperature, 0 to 100% relative humidity	
Weight of the sensor	13 g without cable	15 g without cable
Power supply	Stabilized Vex of 0.5 – 10 VDC, power consumption practically zero	
Material	Stainless steel and Aluminium	
Cable length	5 m, extendable up to 100 m	

### Data samples of dendrometers

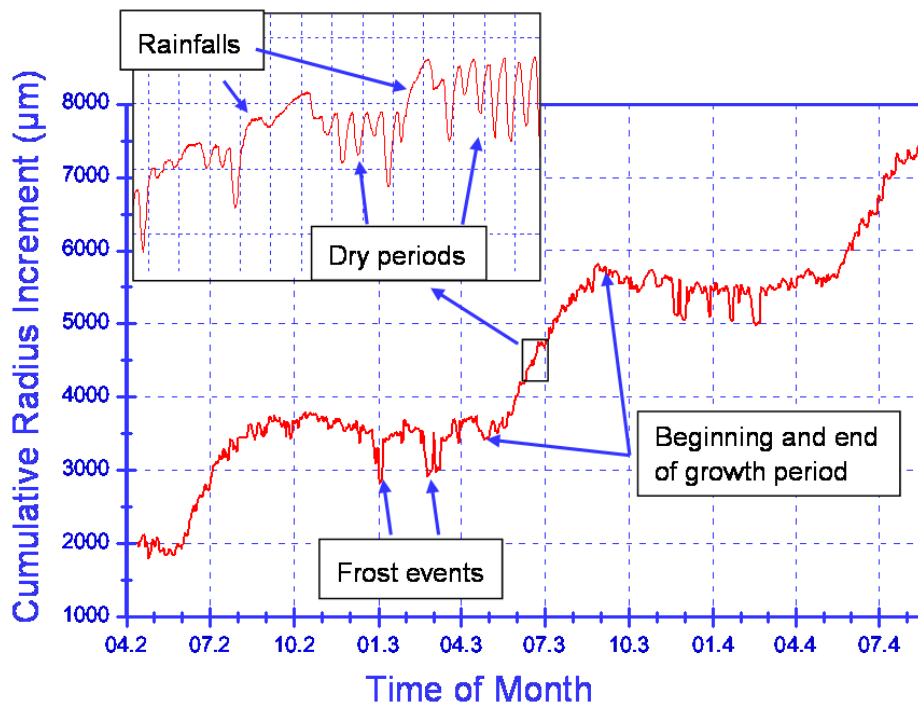
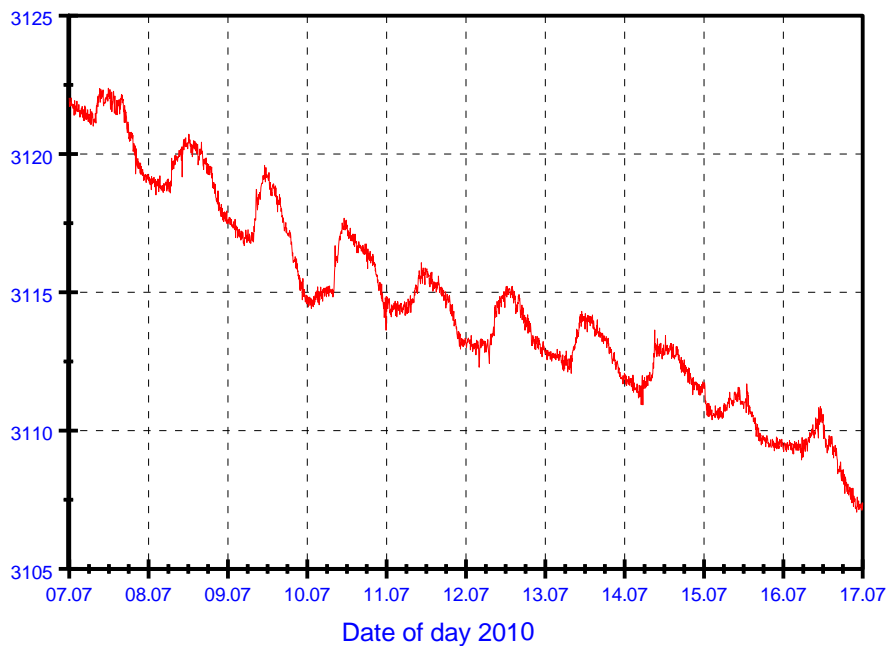


Fig. 1 Growth curve of a spruce tree



Growth Curve of a wheat measured with a DD-S dendrometer in the dry July days of 2010 in Germany