

Fruit Dendrometer Series DF

Technical Specifications



Model: DF4



Model: DF5



Model: DF6

Name of the Sensor	Diameter dendrometer large		
	Type DF4	Type DF5	Type DF6
Use area	slow/normal growing	fast growing	very fast growing
Suitable for fruit size	10 -130 mm (FS)	0 – 22 mm	0 – 50 mm
Range of the sensor	130 mm	11.0 mm	25.4 mm
Resolution	The resolution of the sensor itself is infinite. The resolution of readings is determined by connected data logger, e.g.		
	CR1000:1.5 µm Dendrometer logger DL18: 0.2 µm	CR1000: 3.3 µm Dendrometer logger DL18: 0.5 µm	CR1000: 3.3 µm Dendrometer logger DL18: 0.5 µm
Accuracy	Max. ± 0.8% of reading (stable offset)	Dendrometer dependent: Max. ±4.5% of reading (stable offset)	Max. ±1.97% of reading (stable offset)
	CR1000:±(0.04% of reading+4.4µm) Dendrometer logger DL18: ±0.1%	Data logger dependent, e.g.: CR1000:±(0.04% of reading+4.4µm) Dendrometer logger DL18: ±0.1%	CR1000:±(0.04% of reading+10µm) Dendrometer logger DL18: ±0.1%
Temperature coefficient of the sensor	< 0.2 µm / °C in the whole range		
Temperature coefficient of the sensor	< 0.015% / °C of FS	< 0.2 µm / °C in the whole range	< 0.2 µm / °C in the whole range
Linearity	<1%	< 1%	< 0.7%
Environment	Outdoor condition: -25 to 70°C air temperature, 0 to 100% relative air humidity		
Weight of the sensor	48 g without cable	15 g without cable	33 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		