

# Radius Dendrometer Type DR

## Technical Specifications



Model: DR1



Model: DR3



Model: DR2

Name of the Sensor	Radius dendrometer		
	Type DR1 (former name DR)	Type DR3	Type DR2
Use area	slow/normal growing species		fast growing species
Suitable for plant diameter	> 8 cm	> 5 cm	> 8 cm
Range of the sensor	11 mm		25.4mm
Resolution	The resolution of the sensor itself is infinite. The resolution of readings is determined by connected data logger, e.g.		
	CR1000: 1.5 $\mu$ m Dendrometer logger DL18: 0.2 $\mu$ m		CR1000: 3.3 $\mu$ m Dendrometer logger DL18: 0.5 $\mu$ m
Accuracy	Dendrometer dependent: Max. $\pm$ 4.5% of reading (stable offset)   Max. $\pm$ 1.97% of reading (stable offset)		
	Data logger dependent, e.g.: CR1000: $\pm$ (0.04% of reading + 4.4 $\mu$ m)   CR1000: $\pm$ (0.04% of reading + 10 $\mu$ m) Dendrometer logger DL18: $\pm$ 0.1%   Dendrometer logger DL18: $\pm$ 0.1%		
Temperature coefficient of the sensor	< 0.2 $\mu$ m / $^{\circ}$ C in the whole range		
Linearity	< 1%		< 0.7%
Environment	Outdoor condition: -25 to 70 $^{\circ}$ C air temperature, 0 to 100% relative air humidity		
Weight of the sensor without cable	13 g		33 g
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		