

# Rugged Diameter Dendrometer Large Type DD-L1W

## Technical Specifications



<b>Name of the Sensor</b>	Waterproof Diameter Dendrometer Type DD-L1W
<b>Use area</b>	For measuring diameter growth of trees on the coast, under snow, near soil surface
<b>Suitable for plant size</b>	Diameter 3 – 20 cm
<b>Range of the sensor</b>	11 mm
<b>Resolution</b>	The resolution of the sensor itself is infinite. The resolution of readings is determined by connected data logger, e.g. CR1000: 1.5 $\mu\text{m}$ Dendrometer logger DL18: 0.2 $\mu\text{m}$
<b>Accuracy</b>	Dendrometer dependent: Max. $\pm 4.5\%$ of reading (stable offset) Logger dependent, e.g.: CR1000: $\pm (0.04\%$ of reading +4.4 $\mu\text{m})$ Dendrometer logger DL18: $\pm 0.1\%$
<b>Temperature coefficient of the sensor</b>	$< 0.2 \mu\text{m}/^\circ\text{C}$ in the whole range
<b>Linearity</b>	$< 1\%$
<b>Environment</b>	Under the moist conditions, on the coast, under snow, near soil surface: $-25$ to $70^\circ\text{C}$ air temperature, 0 to 100% relative air humidity
<b>Weight of the sensor</b>	30 g without cable
<b>Power supply</b>	Stabilized Vex of 0.5 – 10 VDC, power consumption practically zero
<b>Material</b>	Stainless steel and Aluminium
<b>Cable length</b>	5 m, extendable up to 100 m