

Radius Dendrometer Type DR

Technical Specifications



Model: DR1



Model DR1W



Model: DR3



Model: DR3W



Model DR7

| Name of the Sensor | Radius dendrometer | | |
|---------------------------------------|--|---|-----|
| | DR1 & DR1W | DR3 & DR3W | DR7 |
| Use area | normal growing species | | |
| Mounting Method | Normal frame with 2 screws | Quick mounting frame with 1 screw. DR7 with tool-less installation | |
| Suitable for plant diameter | > 8 cm | > 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. Dendrometer logger DL18: 0.2 μ m | | |
| Accuracy | Dendrometer dependent: Max. \pm 4.5% of reading (stable offset) Data logger dependent, e.g.: Dendrometer logger DL18: \pm 0.1% | | |
| Temperature coefficient of the sensor | < 0.2 μ m / $^{\circ}$ C in the whole range | | |
| Linearity | <1% | | |
| Environment | Outdoor condition: -25 to 70 $^{\circ}$ C air temperature, 0 to 100% relative air humidity | | |
| Weight of the sensor without cable | 15 to 30 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 | | |



Model: DR2



Model DR6



Model DR4

| Name of the Sensor | Radius dendrometer | | |
|---------------------------------------|---|--------|----------------------------|
| | DR2 & DR6 | | DR4 |
| Use area | fast growing species | | very fast growing species |
| Mounting Method | Quick mounting frame with 1 screw. DR6 with tool-less installation | | Normal frame with 2 screws |
| Suitable for plant diameter | > 8 cm | > 5 cm | > 8 cm |
| Range of the sensor | 25.4 mm | | 50.8 mm |
| Resolution | The resolution of the sensor itself is infinite. The resolution of readings is determined by connected data logger, e.g. Dendrometer logger DL18: 0.5 μm Dendrometer logger DL18: 1 μm | | |
| Accuracy | Dendrometer dependent: Max. $\pm 1.97\%$ of reading (stable offset) Max. $\pm 0.98\%$ of reading (stable offset) Data logger dependent, e.g.: Dendrometer logger DL18: $\pm 0.1\%$ | | |
| Temperature coefficient of the sensor | < 0.2 $\mu\text{m} / ^\circ\text{C}$ in the whole range | | |
| Linearity | < 0.7% | | < 0.5% |
| Environment | Outdoor condition: -25 to 70°C air temperature, 0 to 100% relative air humidity | | |
| Weight of the sensor without cable | 15 g | 20 g | 43 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 | | |