

Fruit and Vegetable Dendrometer (DF)

The DF is the special dendrometer version for measurements on circular fruiting bodies. The fruit in the measuring frame is firmly fixed without affecting its growth. The frame sustains the weight of the target and relieves the peduncle.

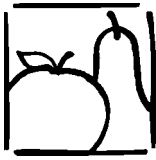
Advantages

- Suitable for diameter between 0 and 11 cm (other size on request)
- Fruits do not have to bear the weight of the dendrometers
- Measures diameter changes
- Assessment of the time point of ripeness for softening fruit and vegetable types
- No Injury to fruits
- Minimal load on the target
- Stability against wind, snow, falling small branches and small fruits



There are 3 types of sensors available:

Name of the Sensor	Fruit Dendrometer Type DF1 (former name DD-L)
Use area	For measuring diameter growth of small sized or slow growing fruits and vegetables
Suitable for plant size	Diameter: 0 -11 cm (>11 cm on request)
Range of the sensor	15 mm
Resolution	The resolution of the sensor itself is infinite. The resolution of readings is determined by connected data logger, e.g. CR1000: 2 µm Dendrometer logger DL18: 0.3 µm
Accuracy	Dependent on the connected data logger, e.g.: CR1000: ±12.0 µm Dendrometer logger DL18: ±0.1%
Temperature coefficient of the sensor	<0.2 µm in the whole range
Linearity	<2%
Environment	Outdoor condition: -30 to 40°C air temperature, 0 to 100% relative air humidity
Weight of the sensor	15 g without cable
Power supply	No additional power supply needed
Material	Stainless steel and Aluminium
Cable length	5 m, extendable up to 100 m



Fruitquality – Size

Fruit-/Vegetable Dendrometer DF



Umweltanalytische
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Model DF2



Model DF3

Name of the Sensor	Diameter dendrometer large	
	Type DF2	Type DF3
Use area	medium sized and fast growing fruits and vegetables	large sized and fast growing fruits and vegetables
Suitable for plant size	Diameter 3-30 cm	
Range of the sensor	25 mm	50 mm
Resolution	The resolution of the sensor itself is infinite. The resolution of readings is determined by connected data logger, e.g. CR1000: 3.3 µm Dendrometer logger DL18: 0.5 µm	
Accuracy	Dependent on the connected data logger, e.g.: CR1000: ± 20.0 µm Dendrometer logger DL18: ±0.1%	
Temperature coefficient of the sensor	< 0.2 µm / °C in the whole range	
Linearity	<0.7%	< 0.5%
Environment	Outdoor condition: -30 to 40°C air temperature, 0 to 100% relative air humidity	
Weight of the sensor	26 g without cable	37 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	