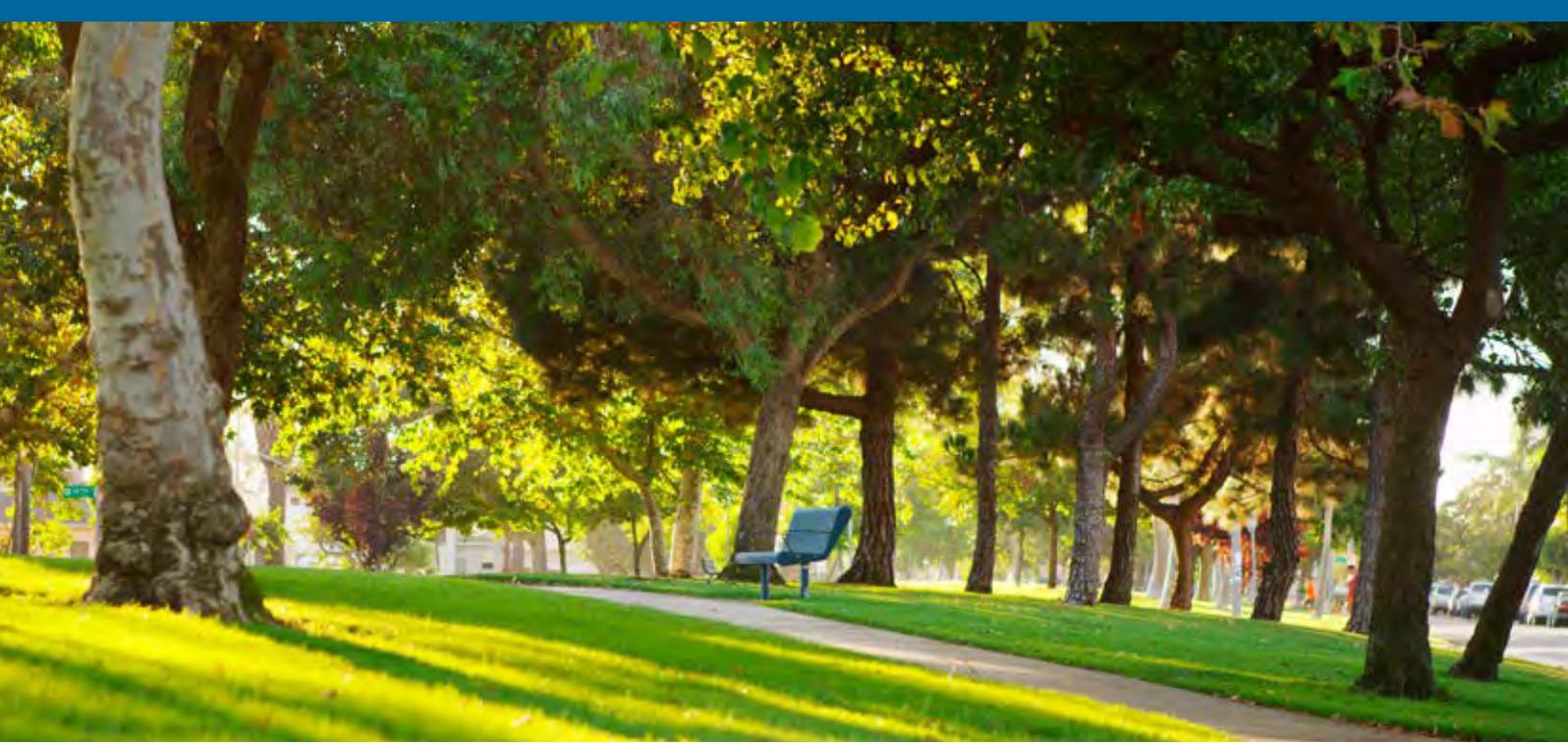




With Passion and Precision

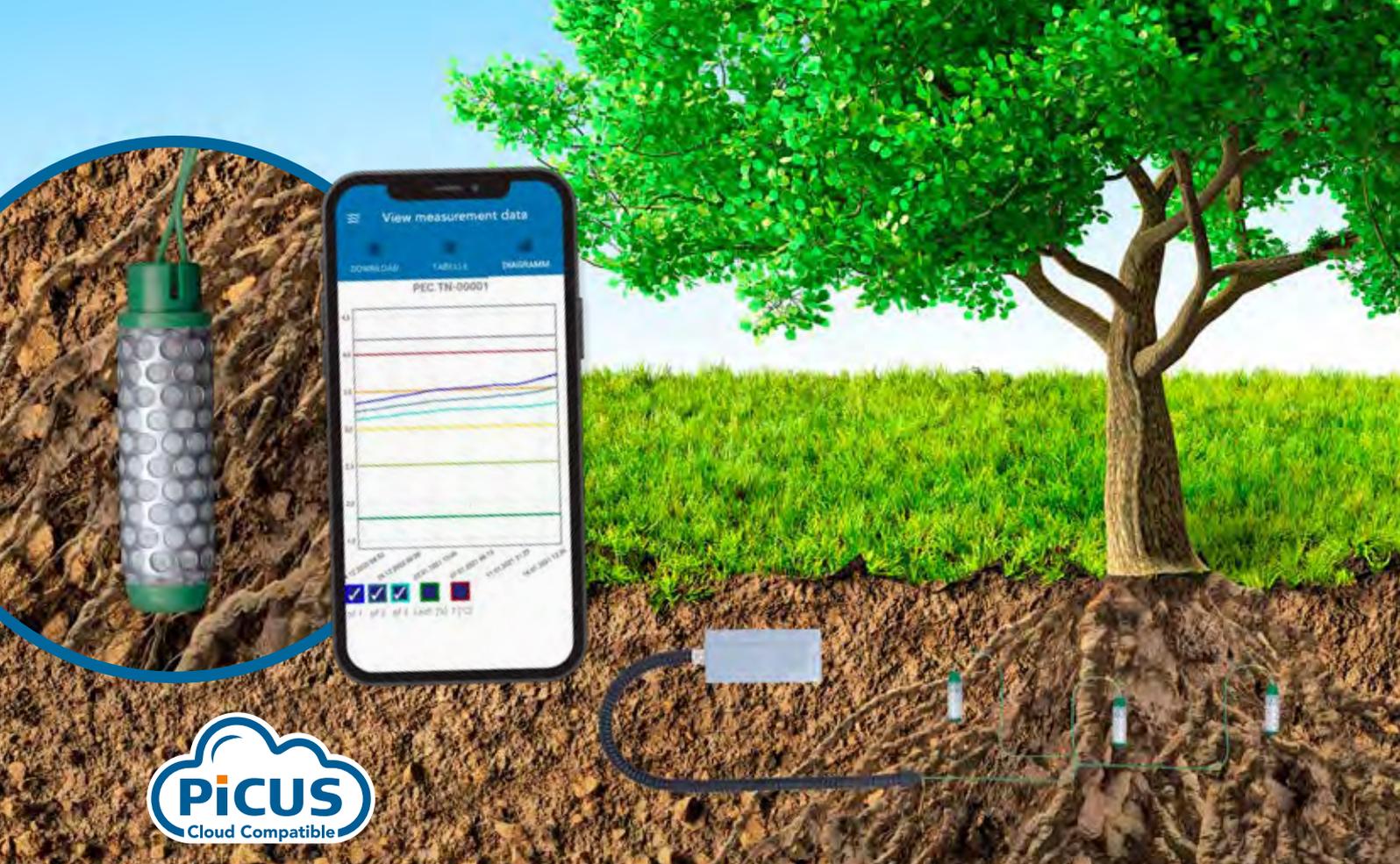
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PiCUS Tension

Simple assessment of drought stress in trees



Avoid drought stress on trees with the PiCUS Tension

Keep track in the PiCUS Environmental Cloud and irrigate your trees efficiently and in a resource-saving way.

The PiCUS Tension is a sensor that is inserted into the soil of the tree location. There, the suction tension is measured at up to three positions, which can be used to draw conclusions

about the availability of water to the plants. The measurement results obtained are stored in the PEC (PiCUS Environmental Cloud). Drought is detected before damage occurs and irrigation can be made more efficient due to metrological monitoring.

PiCUS Tension Rating:

The decisive measurement result of the Tension is the soil water tension, expressed as a pF value.

pF-Value

	4.2	Irreversible damage, death
	4.0	Drought damage to be expected
	3.5	Severe drought stress
	3.0	Slight drought stress
	2.5	Water available
	1.8	Plenty of water available



Monitoring soil water tension as a measure of plant water availability

The PiCUS Tension can be equipped with up to three robust sensors and used for individual areas of application.

Installation & handling

The PiCUS Tension sensors can be installed directly when planting young trees at the site or subsequently on existing trees that are particularly endangered or preserving. If desired, the sensor elements can be inserted at different depths or also at different positions around the tree. The central electronics can be installed above ground, for example on the planting basin of a young tree, or buried with it.

Measured values

The measurement information is stored in the PiCUS Environmental Cloud on a daily basis and can be viewed immediately. This way, tree owners and managers always have an eye on the water availability of their trees. Watering according to need saves resources such as labour, time and, last but not least, water.

Soil moisture tension indicates the force with which the water is held in the pores of the soil, i.e. how much force plants have to exert to reach the water. The lower the soil moisture tension, the easier the water is available for plants. When the soil water tension is high, the water is hardly available to plants.

The measured suction tension of the PiCUS Tension is indicated with the pF value and additionally assigned to the colours of a traffic light scale for a better overview.

More information
via QR code!



Do you have any questions?
We are happy to
assist you personally

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