TALKING TREE

Systems

UGT UMWELT GERÄTE TECHNIK

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The Solutionists

T*Tree* public

suitable for
everyone

Focus:

climate change, health,
urban climate, well-being

Visualization:

simple and pictorial, with vivid
comparisons and thermal images

Measurement technology:

sap flow and wood moisture sensors,
stem circumference sensor,
soil temperature and soil moisture
sensors, soil tension measurement
up to pF-4.2 (permanent wilting
point), thermal camera, data logger,
database system and data
visualization

T*Tree* education

for scientifically
interested

Focus:

growth, water use, cooling capacity,
climate change, urban climate

Visualization:

simple and pictorial, with vivid
comparisons and thermal
images
+ additional statistics and info on
sensor technology

Measurement technology:

sap flow and wood moisture sensors,
stem circumference sensor,
soil temperature and soil moisture
sensors, soil tension measurement
up to pF-4.2 (permanent wilting
point), thermal camera, data logger,
database system and data
visualization

+ weather station (humidity,
air temperature, radiation,
opt. expandable)

T*Tree* research

for scientific
projects

Focus:

physiological processes like growth
and water transport, water potential,
cooling capacity, climate change,
urban climate

Visualization:

Scientific standards according to,
tabular data, advanced statistics
statistics

Measurement technology:

sap flow and wood moisture sensors,
stem circumference sensor,
soil temperature and soil moisture
sensors, soil tension measurement
up to pF-4.2 (permanent wilting
point), thermal camera, data logger,
database system and data
visualization

+ weather station (humidity,
air temperature, radiation,
opt. expandable)

+ stem psychrometer

TALKING TREE

T*Tree* public
T*Tree* education
T*Tree* research

Let the trees speak -
this is possible with our
measurement technology

For an insightful interaction
with nature

talking TREE *Sensorik in Echtzeit*

Our Talking Tree partners:

SVADSS Soil Vegetation Atmosphere Data Sensor Service

ulm university universität u ulm

TALKING TREE

The access for a sustainable environment!

Trees and forests are not only beautiful, but also very useful. Even a single tree makes a big contribution to our eco-balance. With UGT's T*Tree* systems, the daily performance of a tree is easily visible and illustrates, how valuable a tree is for our environment!

How does a T*Tree* work?

A T*Tree* is a tree equipped with sensors and a thermal imaging camera. It collects, stores and analyzes measurement data. The results are translated into an easy-to-understand language and visualized on various end devices.

Why T*Tree*?

✔ Environmental education for every generation

✔ To show climate change by example

✔ Recognize, understand and experience connectionsbetween nature and humans

✔ Understanding the needs and benefits of a tree or plant

✔ arouse interest for the native plant world also in connection with regional workshops

✔ get to know scientific work

✔ positive influence of plants on environment and people

✔ plant-physiological correlations can be understandable

What makes the T*Tree* so special?

The tree „speaks" and tells us its mood. Through these human qualities we create a contact with the tree.
At any time, observers can experience the condition of the tree and see its contribution to climate protection live.

*Very good!
The rain over the last days has filled my reservoirs.*

How are you today?

T*TREE*

Which tree services are visualized?

Depending on your intention / project:
Cooling capacity, CO_2 storage, growth, water consumption and much more.