

Water Stress in Agronomy



Precision. Quality. Reliability

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The Product

The LDVT technology is perfectly adapted for the harshest environment. The capability of the LVDT to detect the smallest possible movement is a key for very small displacement.

This application generally claims dedicated products to match with delicate surface like trees or fruits

The large range of sensors both 'off the shelf' and 'customer specials' that are better able to satisfy today's demanding on such research applications.

Range: 5 mm to 300 mm – Accuracy: Up to 0.1% FSO – Resolution: Below 0.02 μm – Hermetically sealed and submersible on request



The Challenge

Nowadays, the climate issues are one of the most important and specialized science fields. The analysing methods on lack of water impacts are constantly changing. In order to help the agronomy world to understand the irrigation processes and their influence.

Displacements sensors will be used to watch the growth's process and link it with the standard stimulus, water, sun exposure, pollution toxins, earth quality, chemicals etc.

The system must be compact and not interfere with the trees or fruits developments.

Each specie has it's own behaviour and the scientist in charge of the analysis would be able to classify each type of plants for each type of lands.



Our OEM makes an adapted fixture to fix the LVDT directly on the samples. The tests could be also engaged directly on the field, everywhere on the globe. The communication will be handled by a low power consumption electronics, including a GPRS transfer mode.

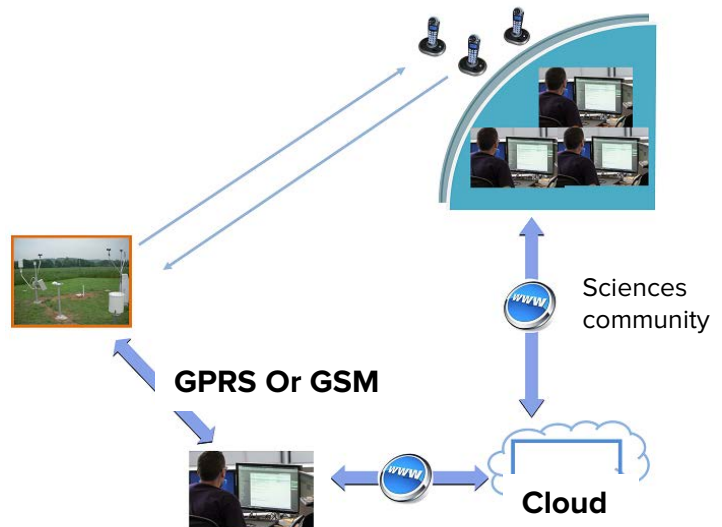
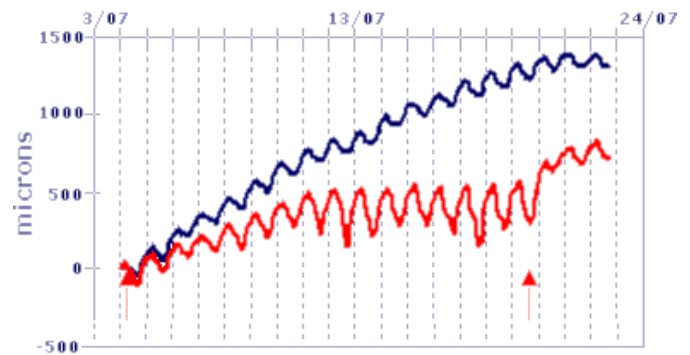
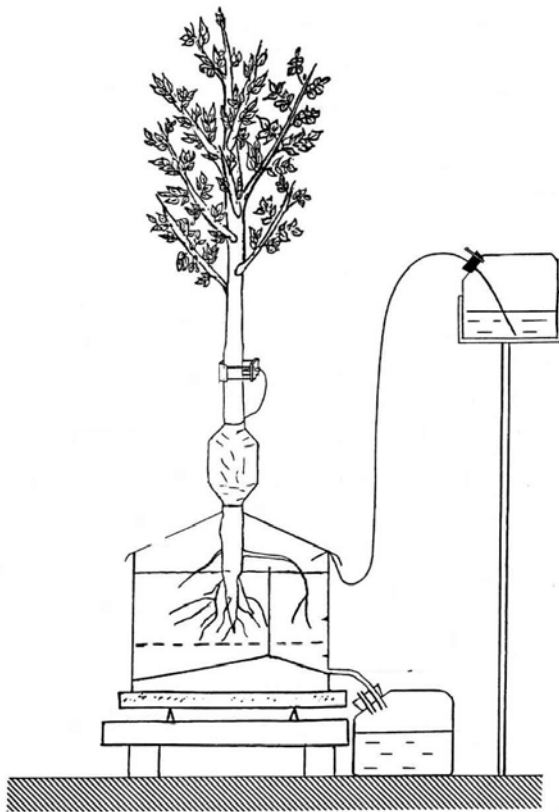
The Index of protection must be as high as possible IP67.

The Solution

Analog S Series or SR Series sets have been selected. Their enlarged ranges and the flexibility of their mechanical options is the perfect combination.

IP67 or IP68 with stainless steel body and sealing is 100% compatible with the exterior environment.

The customer would use a wireless tablet or a laptop to analyse the system behaviour. The device could send some alerts directly via a GPRS communication device in case of emergency.



<http://www.cimel.fr/?lang=en>

The stability and the accuracy of the electronics satisfy the customers aims in his water cycle's evaluation. The universality of the device in every operation mode, in lab or in fields provides a perfect way for the understanding of physical and physiological processes related with water savings and uses.

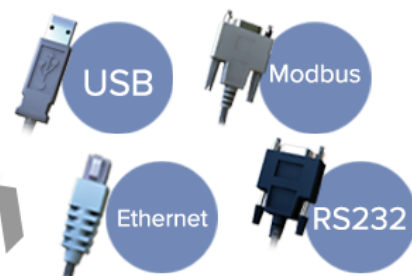
Orbit® 3 – The Total Measurement System from Solartron Metrology

The Solartron Orbit® 3 Digital Measurement System, in conjunction with Solartron's wide range of transducers, including both contact and non-contact linear measuring transducers (gauging probes), specialist transducers and third party transducer interfaces, provides a limitless set of measuring system solutions, with numerous different interfaces to computers and PLC's, making Orbit® 3 completely flexible.

Supports all Solartron Sensors



Interface via USB, RS232,
Ethernet and Modbus Output



Interface to various sensors
and readouts



Up to 150 Sensors





SCIGATE AUTOMATION (S) PTE LTD

No.1 Bukit Batok Street 22 #01-01 Singapore 659592

Tel: (65) 6561 0488

Fax: (65) 6562 0588

Email: sales@scigate.com.sg

Web: www.scigate.com.sg

Business Hours: Monday - Friday 8.30am - 6.15pm

United Kingdom - Head Office

Solartron Metrology

Steyning Way

Bognor Regis

West Sussex

PO22 9ST

Tel: +44 (0) 1243 833333

Fax: +44 (0) 1243 833322

[Sales.solartronmetrology@ametek.com](mailto:sales.solartronmetrology@ametek.com)

France

Solartron Metrology

Rond-point de l'Espine des Champs

Buroplus - Bat. D

Elancourt 78990

Tel: +33 (0)1 30 68 89 50

Fax: +33 (0)1 30 68 89 59

france.solartronmetrology@ametek.com

Germany

Ametek GmbH

Solartron Metrology Division

Rudolf-Diesel-Strasse 16

40670 Meerbusch

Tel: +49 (0) 2159 9136 500

Fax: +49 (0) 2159 9136 505

vertrieb.solartron@ametek.de

Brazil

Ametek do Brasil, Ltda

Rod. Eng Ermenio de Oliveira Penteadou, Km 57, SP75

Bairro Tombadouro

13337-300, Indaiatuba, SP, Brazil

Tel: +55 19 2107 4126

India

Ametek Instruments India Private Limited

1st Floor, Left Wing

Prestige Featherlite Tech Park

Plot #148, EPIP II Phase

Whitefield, Bengaluru 560 066

Karnataka, India

Tel: +91 80 6782 3200

Fax: +91 80 6782 3232

USA

Solartron Metrology

USA Central Sales Office

915 N.New Hope Road, Suite C

Gastonia, NC 28054

Tel: +1 800 873 5838

Fax: +1 704 868 8466

usasales.solartronmetrology@ametek.com

China

AMETEK Commercial Enterprise (Shanghai) Co. Ltd

No. 155 Puhui Road

Ju Ting Economic Development Zone

Shanghai 200131, China

Tel: +86 21 5763 2509

Fax: +86 21 5866 0969 Ext. 261/262

china.solartronmetrology@ametek.com



Solartron Metrology

Precision Driven

Offices worldwide

Agent and distributor details

available at

www.solartronmetrology.com



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Solartron pursues a policy of continuous development. Specifications in this document may therefore be changed without notice.

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www.solartronmetrology.com • sales.solartronmetrology@ametek.com