

ACCURATE - ROBUST- WIRELESS THE INNOVATIVE SOLUTION FOR MOBILE MOISTURE MEASUREMENT

Only TRIME®-TDR guarantees
excellent accuracy in high saturated
soils with high pore water electrical
conductivity.



Choose IMKO's robust PDA or use any commercially available PDA with Bluetooth® and Microsoft® Windows Mobile®

Bluetooth®

ty of sensors at different measuring locations. PICO-TALK recognises the serial number of the connected sensor and saves the reading in your system along with this information.

PICO-BT, the Bluetooth® module for the PICO sensors, is included with the PICO- TALK software for Microsoft® Windows Mobile®

> The TRIME-PICO32 soil moisture sensor with an integrated soil-temperature measurement system.

- Ideal for irrigation control systems and soil moisture monitoring
- Perfect for sandy and loamy soils

The TRIME-PICO IPH tube access probe permits rapid, reliable, and non-destructive recording of water content profiles.

With just one PICO-BT module you can collect the readings from a varie-

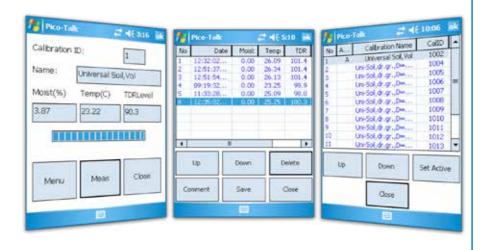
- Large measuring volume
- Ideal for soils with high conductivity

The TRIME-PICO64 soil moisture sensor with an integrated soil temperature measurement

- Large measuring volume
- The best solution for heterogeneous and

PICO-TALK THE MANAGEMENT SOFTWARE FOR PICO SENSORS

Your Bluetooth module PICO-BT includes our easy-to-use PICO-TALK software for Microsoft®
Windows Mobile®. To make it even easier to operate we can provide the software in 3 different languages: German, English, and Chinese.
PICO-TALK's individual menus are set out clearly and can all be reached with a single touch of your fingertip.



PICO-TALK's graphical user interface is optimised for single-handed field applications

RAPID AND SIMPLE MEASUREMENTS

Simply insert your TRIME-PICO sensor into the ground and start the measurement process by pressing your PICO-TALK software's "MEAS" button. You receive an accurate moisture reading within only



2 seconds. In the case of buried sensors you also receive a reading for the soil temperature. The readings are saved directly in the system along with the time and date, enabling you to track what was measured when.

SAVE READINGS RELIABLY

You also have the option of giving a specific designation to measuring locations and saving the reading under this name.

CUSTOMISED CALIBRATION

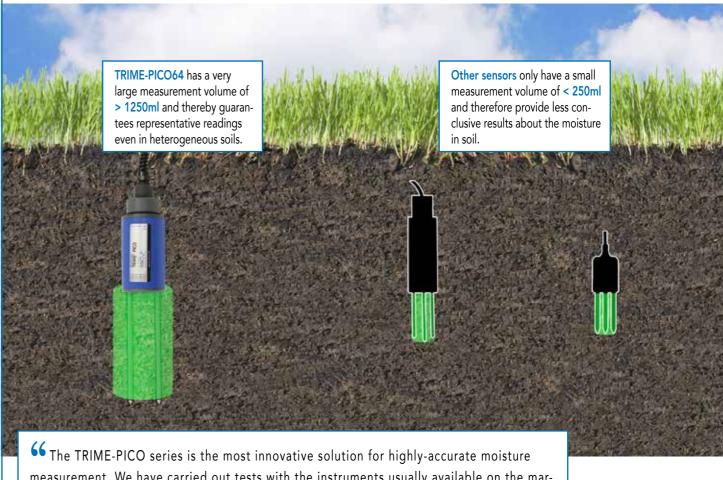


TRIME-PICO sensors are supplied with precise soil calibration and can be used straightaway. If you prefer, you can perform the calibration process yourself and save the results in the sensor. PICO-TALK recognises the saved calibrations in the sensor and displays them in PICO-TALK for easy selection.

EFFORTLESS EXPORT OF READINGS

Do you want to use your readings in other systems? No problem. Your saved data can be exported easily in any application.

THE DIFFERENCE IS IN THE MEASUREMENT VOLUME



The TRIME-PICO series is the most innovative solution for highly-accurate moisture measurement. We have carried out tests with the instruments usually available on the market and none of them except TRIME was able to achieve a high level of accuracy in very saline soil. And thanks to Bluetooth, interfering wires are a thing of the past in mobile applications in the field. Top marks from us for the TRIME measurement system.

Prof. Dr. Christof Hübner, University of Applied Sciences in Mannheim

TRIME-PICO IPH FOR ACCURATE MEASUREMENTS OF WATER CONTENT PROFILES

For the first time ever, the rapid, routine and non-destructive measurements of water content profiles is possible without the use of hazardous radioactive materials.

The TRIME tube probes comprise a cylindrical PVC casing with four spring-mounted aluminium plates on opposite sides. The measurements are performed from within TECANAT plastic access tubes which can be left in the soil. The tubes must be installed prior to the taking the measurements by using a specially developed drilling set. Use up to 3m length of probe cable and tubes.



THE LATEST TECHNOLOGY FOR THE BEST MEASUREMENTS

Technical Data										
	TRIME®-P	PICO64		TRIME®-PICO32			TRIME®-PICO IPH T3/44			
Power supply:	7V24V-DC									
Power consumption:	100mA @ 12V/DC during 23sec. of measuring									
Moisture measuring range:	0100% volumetric water content									
Accuracy (in % volumetric water content):										
conductivity range:	06dS/m	620dS/m	>20dS/m	06dS/m	620dS/m	>20dS/m	06dS/m	615dS/m	>15dS/m	
Moisture range 040%:	±1%	±2%	with material	±1%	±2%	with material specific cali- bration	±2%	±3%	with tube access probe T3C/44	
Moisture range 4070%:	±2%	±3%	specific cali- bration	±2%	±3%		±3%	±4%		
Repeating accuracy:	±0.2%	±0.3%		±0.2%	±0.3%		±0.3%	±0.5%		
Temperature caused drift of electronics (full range):	±0.3%									
Soil temperature measuring range:	-15°C50°C									
Soil temperature measuring accuracy:	±1,5°C absolute; ±0,5°C relative									
Measurement volume:	1,25L ≙ 160x100mm diameter 0,25L ≙ 110x50mm diameter						3,0L ≙ 180x150mm diameter			
Operating Temperature:	-15°C50°C (extended temperature range on request)									
Calibration:	Calibration for a wide range of standard soil types (in accordance with Topp (equation))									
	standard calibration for most soils, customizable material specific calibration, storage of up to 15 user defined calibration curves, calibration of dialectric permittivity is possible			standard calibration for most soils, customizable material specific calibration, storage of up to 15 user defined calibration curves, calibration of dialectric permittivity is available			standard calibration for most soils, customizable material specific calibration, storage of up to 15 user defined calibration curves, calibration of dialectric permittivity is possible			
Probe body:	waterproof sealed PVC (IP68)									
Size:	155 x Ø63mm			155 x Ø32mm			144 x Ø32mm	144 x Ø32mm		
Rod lenght:	standard: 160mm			standard: 110mm			standard: 180mm			
Rod diameter:	6mm			3,5mm			_			
Interfaces:	IMP-BUS RS485 RS485 RS485 Analogue output: 2x 01V, 0(4)20mA ¹ Analogue output: 2x 01V, 0(4)20mA ¹ 0100% vol. water content 0100% vol. water content -40+70°C soil temperatur -40+70°C soil temperatur								.20mA [†]	
Option 1 (for PICO-BT and TRIME-HD):	1,5m cable with 7-pin female connector						3,5m cable with 7-pin female connector			
Option 2 (IMP-BUS):	5m cable with 4-pin female connector						_			
Option 3 (all interfaces):	5m cable with end splices (all interfaces) Optional available for cable extension: E-BOX (cable extension box) Optional available for cable extension and current output: C-BOX (01V to 0(4)20 mA converter box)									

Features PICO-BT module



Connectable Probes: PICO64, PICO32, PICO-IPH (measurement of soil profiles) Class 2 Bluetooth® module, Bluetooth® specification 2.0 compatible Up to 10 meter range Internal rechargeable battery Optimal power management Operating Temperature: -20°C...70°C Number of measurements with one charge: > 1500 Ni-MH (4 x 1.2V) (AA) Rechargeable Batteries, 1000mAh

Features Software PICO-TALK



Platform: Microsoft[®] Windows Mobile[®] 6.0 or 5.0 or Windows[®] CE

Easy to install and use

Stores many thousand measurements

Up to 15 user defined calibrations selectable

Intuitive user interface

Touch screen operation

3 different languages: German, English and Chinese

Requires less memory

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