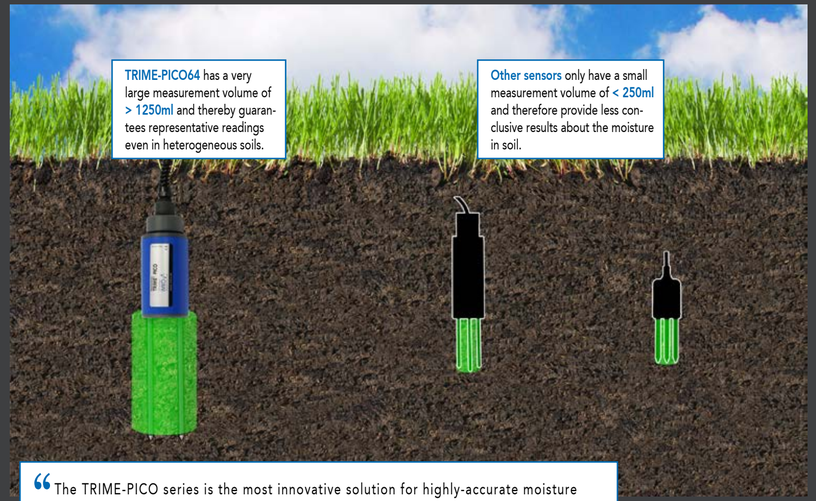
THE DIFFERENCE IS IN THE MEASUREMENT VOLUME



“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®-PICO64			TRIME®-PICO32			TRIME®-PICO IPH T3/44		
Power supply:	7V..24V-DC								
Power consumption:	100mA @ 12V/DC during 2..3sec. of measuring								
Moisture measuring range:	0..100% volumetric water content								
Accuracy (in % volumetric water content):									
conductivity range:	0..6dS/m	6..20dS/m	>20dS/m	0..6dS/m	6..20dS/m	>20dS/m	0..6dS/m	6..15dS/m	>15dS/m
Moisture range 0..40%:	±1%	±2%	with material specific calibration	±1%	±2%	with material specific calibration	±2%	±3%	with tube access probe T3C/44
Moisture range 40..70%:	±2%	±3%		±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°C...50°C								
Soil temperature measuring accuracy:	±0,2°C								
Measurement volume:	1,25L ≙ 160x100mm diameter			0,25L ≙ 110x50mm diameter			3,0L ≙ 180x150mm diameter		
Operating Temperature:	-15°C...50°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 dielectric permittivity is possible			standard calibration for most soils, customizable material specific calibration, storage of up to 15 user defined calibration curves, calibration of dielectric permittivity is available			standard calibration for most soils, customizable material specific calibration, storage of up to 15 user defined calibration curves, calibration of dielectric permittivity is possible		
Probe body:	waterproof sealed PVC (IP68)								
Size:	155 x Ø63mm			155 x Ø32mm			144 x Ø32mm		
Rod lenght:	standard: 160mm			standard: 110mm			standard: 180mm		
Rod diameter:	6mm			3,5mm			—		
Interfaces:	IMP-BUS RS485 Analogue output: 2x 0..1V, 0(4)..20mA[1] 0..100% vol. water content -40..+70°C soil temperatur						RS485		
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) [1]Optional available for cable extension and current output: C-BOX (0..1V 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, 2000mAh

Features App TRIME-Blue

Operating system: Android®
Stores many thousand measurements
All data are stored as .csv file and can be easily sent by E-Mail. Readtable in your own calculation software.
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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IMKO
MICROMODULTECHNIK GMBH

HIGH-TECH FOR HIGH PRECISION MOISTURE MEASUREMENTS.

NEW
NOW FOR ANDROID

RELIABLE,
WIRELESS
MOBILE,
FLEXIBLE.

Bluetooth®

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

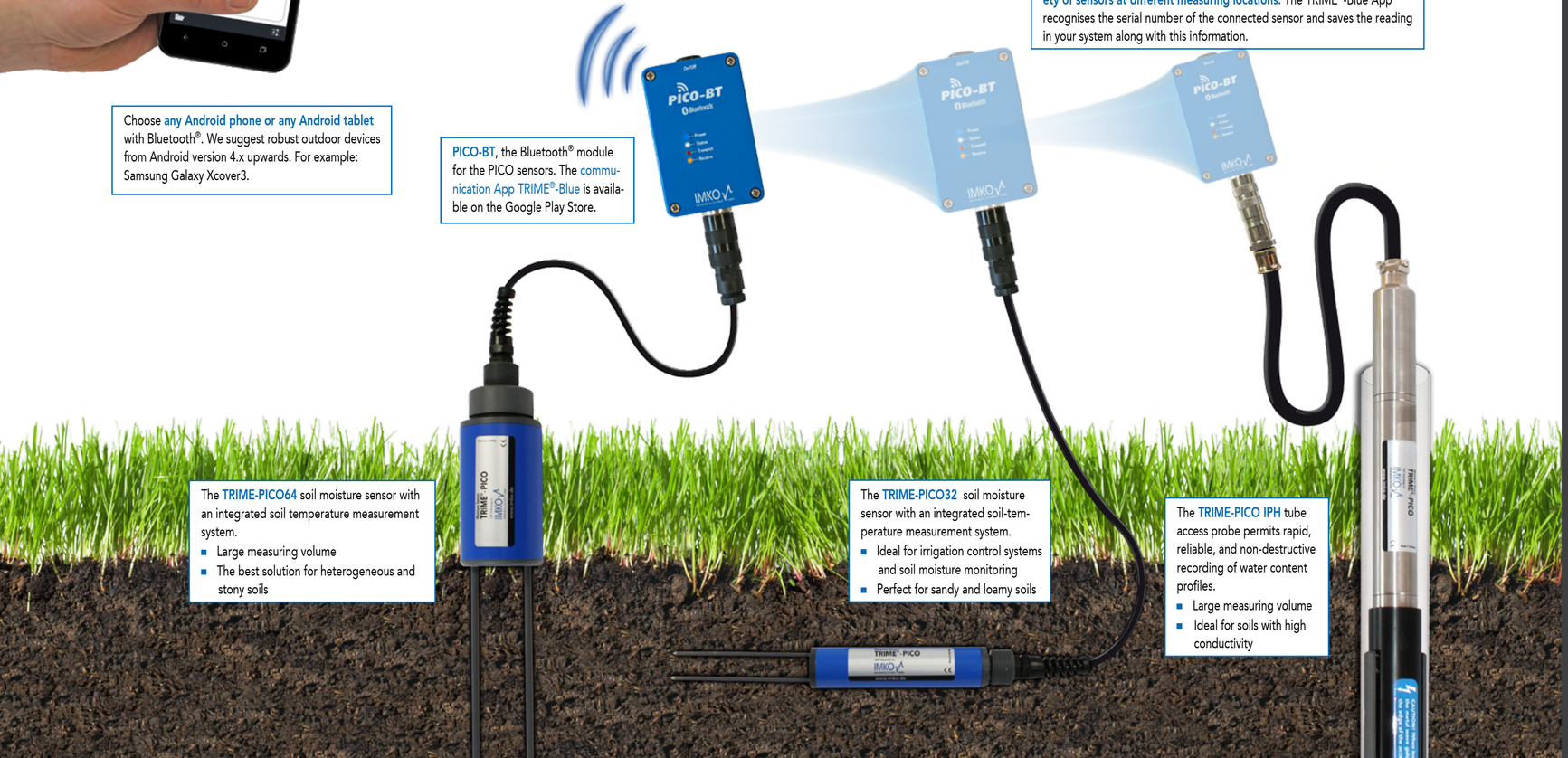
Choose any Android phone or any Android tablet with Bluetooth®. We suggest robust outdoor devices from Android version 4.x upwards. For example: Samsung Galaxy Xcover3.

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

Bluetooth®

PICO-BT, the Bluetooth® module for the PICO sensors. The communication App TRIME®-Blue is available on the Google Play Store.

With just one PICO-BT module you can collect the readings from a variety of sensors at different measuring locations. The TRIME®-Blue App recognises the serial number of the connected sensor and saves the reading in your system along with this information.



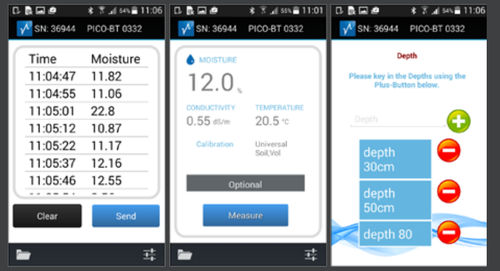
The TRIME-PICO64 soil moisture sensor with an integrated soil temperature measurement system.
- Large measuring volume
- The best solution for heterogeneous and stony soils

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.
- Large measuring volume
- Ideal for soils with high conductivity

TRIME-BLUE THE MANAGEMENT SOFTWARE FOR PICO SENSORS

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



GET IT ON Google play

TRIME®-Blue is free of charge available on Google play.

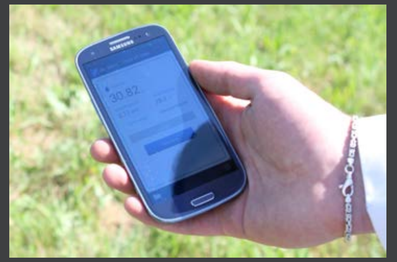
RAPID AND SIMPLE MEASUREMENTS

Simply insert your TRIME-PICO sensor into the ground and start the measurement process by pressing your TRIME®-Blue App "Measure" 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. TRIME®-Blue recognises the saved calibrations in the sensor and displays them in TRIME®-Blue App for easy selection.

EFFORTLESS EXPORT OF READINGS

Do you want to use your readings in other systems? No problem. Your saved data can be easily sent by E-Mail and reeditable in your own calculation software.