

TRIME-PICO 64/32



- Measures 3 important parameters:
- Water Content
 - Temperature
 - NEW** ■ Electrical Conductivity (EC) and Salt Content



Technical Data

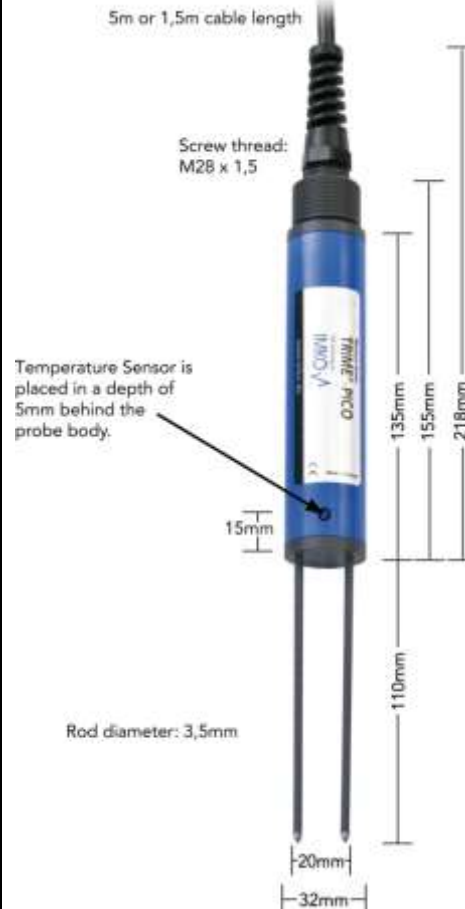
TRIME-PICO64

For in situ monitoring of volumetric moisture in soils. The large measuring volume is particularly suitable for applications in heterogeneous and skeletal media. Burying capability for both horizontal and vertical orientation.



TRIME-PICO32

For in situ monitoring of volumetric moisture in soils. The small measuring volume permits high spatial resolution. Burying capability for both horizontal and vertical orientation.



Technical Data						
TRIME®-PICO64			TRIME®-PICO32			
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
Moisture range 0..40%:	±1%	±2%	with material specific calibration	±1%	±2%	with material specific calibration
Moisture range 40..70%:	±2%	±3%		±2%	±3%	
Repeating accuracy:	±0.2%	±0.3%		±0.2%	±0.3%	
Temperature caused drift of electronics (full range):	±0.3%					
Soil temperature measuring range:	-15°C..50°C					
Soil temperature measuring accuracy:	±1,5°C absolute; ±0,5°C relative					
Measurement volume:	1,25L ± 160x100mm diameter			0,25L ± 110x50mm 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		
Probe body:	waterproof sealed PVC (IP68)					
Size:	155 x Ø63mm			155 x Ø32mm		

Options	Interfaces	Application	Cable length	Connector
Option 1:	RS485 & analogue	mobile for HD2 and PICO-BT	1,5 m	7-pin female
Option 2:	IMP-BUS	for globeLog datalogger	5 m (special length on request)	4-pin female
Option 3:	RS485, IMP-BUS & analogue	for analogue datalogger Optional: E-BOX (cable extension box) Optional available for cable extension and current output: C-BOX (0..1V to 0/4)..20 mA converter box	5 m (special length on request)	10-pin and splices
Option 4:	SDI-12, IMP-BUS & analogue	for SDI-12 datalogger	5 m (special length on request)	9-pin and splices

Installation hints

Please assure careful installation of the probes with close contact between rod and soil. It is important to avoid air pockets around the rods as the highest measuring sensitivity is directly around them.

Air pockets around the probe rods can reduce the measured moisture reading. Where saturated soils are involved, water-filled air pockets will result in an exaggerated reading.

IMKO supplies pre-drilling sets for an optimal preparation of the installation point avoiding compaction of soil otherwise caused by the insertion of the rods.