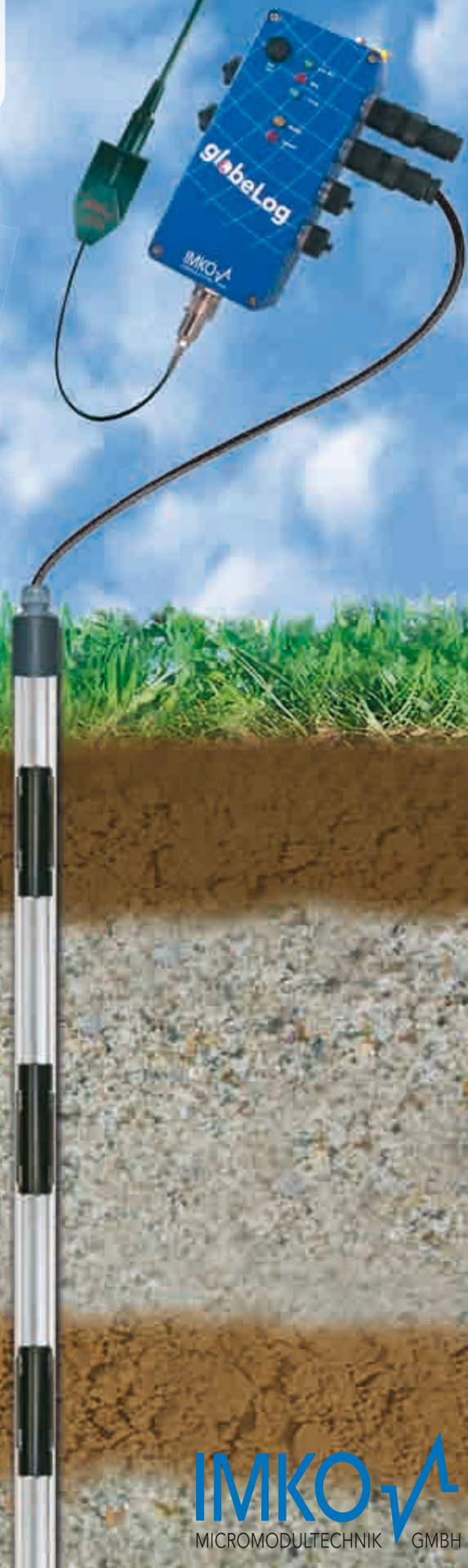


PICO-PROFILE

Accurate Moisture and Salinity Measurement
in selected Soil Profiles – with the latest
TRIME®-Radar Technology

A world first!

- Ideal for the development of soil-water balance models, irrigation control and salt content testing at different soil depths
- Simple and modular configuration
- Calibration curves for different soil types
- Connection of data logger via GPRS wireless modem
- Rugged and waterproof design
- Attractive price / performance ratio



PICO-PROFILE

Convincing Advantages with a new Generation of a modular Profile Probe

• In order to measure precise selected soil horizons, PICO-PROFILE can be configured with spacers easy and modular directly at site installation. The modular design allows to arrange up to 10 measurement segments PICO-T3P in such a way that different soil depths on the very interesting soil profile locations can be measured.

- Concerning the calibration each PICO-T3P segment can be set to the particular soil horizon. Calibration curves for sand, loess or clay are already stored in every measuring segment PICO-T3P and provide even higher precision in the measurement of the moisture content.
- PICO-PROFILE in addition to measuring soil moisture, measures the electrical conductivity EC of the soil, whereby the determination of the salt content in each soil horizon is possible. The measurement result can be calculated to the pore water conductivity EC_w or respectively to TDS (mg of salt per liter water).
- With a representative measurement field PICO-PROFILE penetrates deep into the soil around the access tube. Each PICO-T3P segment measures 1dm^3 soil.
- PICO-PROFILE can be easy connect to the data logger **globeLog** which allows battery operation for long term storage of data. Optionally, the use of GPRS radio modem and SIM card is possible.
- Rugged and waterproof design guarantees a long-term operation in harsh environments.
- Attractive price/performance ratio compared to conventional sensors allows the use of several measuring segments PICO-T3P per measurement point.
- An RS485 interface or optional analogue-output-board allows data acquisition with external data loggers.



Technical Data



Measuring Segment PICO-T3P

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):	± 2%
Repeating accuracy:	± 0,2%
Conductivity measuring range:	EC_w 0...>20dS/m
Measurement volume:	1dm^3
Operating Temperature:	-15°C...50°C (extended temperature range on request)
Calibration:	Selectable calibration curves: 1. Standard calibration (soil ±3%) 2. Sand 3. Clay 4. Loam 5. Dielectric Permittivity
Probe body:	waterproof sealed PVC (IP67)
Size:	200 x Ø 40mm
Access tube:	Tecanat Ø44mm, max. 3m length
Spacer between two PICO-T3P segments:	PVC Ø32mm, max. 2m length and can be variably cut to the desired length
Interfaces:	IMP-BUS RS485
Cable:	1,5m to 5m cable with 7-pin female connector

