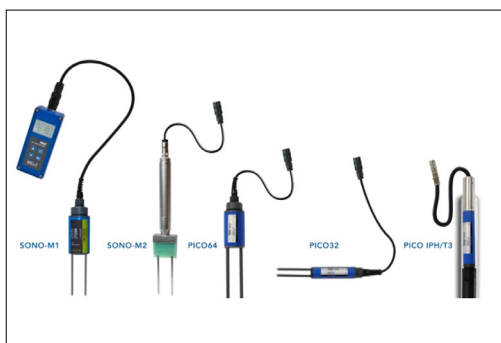
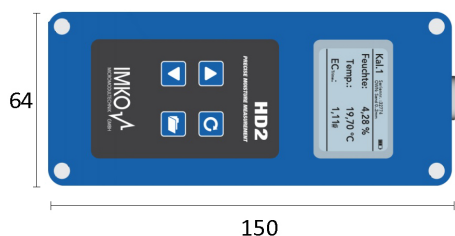


## MOBILE MOISTURE METER HD2



### Drawing



### Features

- Mobile and rugged handheld device to read probes
- Handy two-rod probe with solid rods
- Measurement via TRIME® radar technology with an electromagnetic TDR impulse with 1 GHz to measure the water content precisely to material saturation
- Display of measuring value within two seconds
- Robust and watertight structure
- Probe can be connected to a PC for data collection, change of operation mode or calibration
- Delivery with a resistant hard shell case for trouble-free transport
- TRIME®-TDR Winner of multiple awards. Innovation awards, such as the Bauma Innovation Award 2016 and DLG Approved certification from the German Agricultural Society (DLG - 2018) it is unaffected by steam or changing particle sizes of sand and gravel

### Technical data

**Measuring range :** depend on probe and materials calibration

**Material type :** all materials (depend on probe)

**Connectable sensors :** SONO-M1, SONO-M2, PICO64, PICO32, PICO-IPH

**Resolution :** 0.01%

**Operating Temperature :** -20...+70°C

**Battery :** Ni-MH (4 x 1.2Vdc) (AA), 2000mAh

**Battery life :** full battery for up to 1,500 measuring cycles sufficient.

**Power supply (charging) :** adapter +12...+15Vdc, approx. 1A

**Charging time :** At exhaustively discharged accumulator. 2h

**Material :** Robust aluminium diecast

**Dimension :** 36 x 64 x 150 mm (HxWxL)

**Weight :** 437g

**Protection class :** IP67



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## AVAILABLE PROBE for HD2



PROBE	FEATURES
<b>M1 Probe</b> 	<ul style="list-style-type: none"> <li>For measurement of the moisture content in <b>sand, gravel, crushed stone</b> and <b>expanded clay</b>, etc.</li> <li>Moisture range 0...100% H<sub>2</sub>O (depending on materials)</li> <li>Conductivity range 0..5dS/m</li> <li>Temperature range -15...+50°C</li> </ul>
<b>M1C Probe</b> 	<ul style="list-style-type: none"> <li>For measurement of the moisture content in conductive material i.e. <b>coal, iron oxide, fly ash, furnace slag</b>, etc.</li> <li>Moisture range 0...50% H<sub>2</sub>O (depending on materials)</li> <li>Conductivity range 0..12dS/m</li> <li>Temperature range -15...+50°C</li> </ul>
<b>TRIME-PICO64</b> 	<ul style="list-style-type: none"> <li>The best solution for <b>heterogeneous and stony soils</b></li> <li>Measurement <b>salinity</b></li> <li>Moisture range 0...100% H<sub>2</sub>O (depending on materials)</li> <li>Conductivity range 0..50dS/m</li> <li>Temperature range -15...+50°C</li> </ul>
<b>TRIME-PICO32</b> 	<ul style="list-style-type: none"> <li>The best solution for <b>sandy and loamy soils</b></li> <li>Measurement <b>salinity</b></li> <li>Moisture range 0...100% H<sub>2</sub>O (depending on materials)</li> <li>Conductivity range 0..50dS/m</li> <li>Temperature range -15...+50°C</li> </ul>
<b>TRIME-PICO IPH T3/44</b> 	<ul style="list-style-type: none"> <li>The best solution for <b>Ideal for soils with high conductivity</b></li> <li>Measurement <b>salinity</b></li> <li>Moisture range 0...100% H<sub>2</sub>O (depending on materials)</li> <li>Conductivity range 0..50dS/m</li> <li>Temperature range -15...+50°C</li> </ul>

## MOISTURE PROBE SONO-M1C



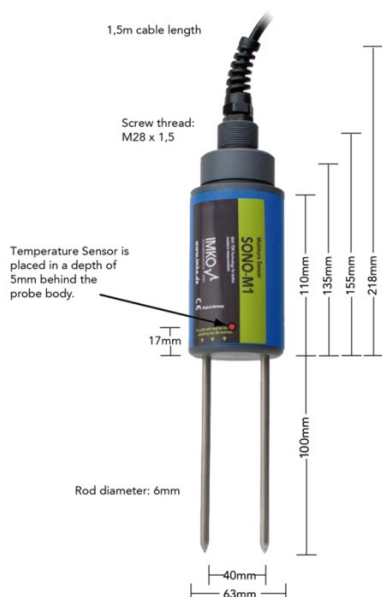
### Features

- For measurement of the moisture content in coal, iron oxide, soils and sand containing clay, fly ash, sandstone, furnace slag and other materials
- State-of-the-art sensor with integrated TDR-electronics
- Integrated Temperature Sensor
- Deployable up to 12dS/m total conductivity (Bulk-Soil-Conductivity)
- Measurement Volume approximate 1000ml
- Robust, proven, and suited for long-term usage
- TRIME®-TDR Winner of multiple awards. Innovation awards, such as the Bauma Innovation Award 2016 and DLG Approved certification from the German Agricultural Society (DLG - 2018) it is unaffected by steam or changing particle sizes of sand and gravel

### Technical data

Measurement	Range	Accuracy
<b>Moisture</b>	0...50% H <sub>2</sub> O (depending on materials)	±0.2%
<b>Conductivity</b>	0..12dS/m	±0.3%
<b>Temperature</b>	-15...+50°C	±0,5°C

### Drawing



**Material type** : conductive material i.e. coal, iron oxide, etc.

**Measuring technology** : TRIME® (Time-Domain-Reflectometry with Intelligent Micromodule Elements)

**Measuring principle** : radar wave frequency 600MHz to 1.2 GHz

**Measurement volume** : approx. 1 liter

**Operating temperature** : -15...+50°C

**Power supply** : 7...24Vdc

**Power consumption** : 12Vdc, 100mA

**Material probe body** : waterproof seal PVC

**Dimension** : 155 x Ø63mm

**Rod length** : 100 mm

**Rod diameter** : 6 mm

**Interface** : 1.5m cable with 7-pin female connector

**Protection class** : IP68



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## AVAILABLE MATERIALS for SONO-M1C

The SONO-M1C is suited for measuring of conductive materials.

- **Sand, gravel and minerals**

For example....



Stone coal



Iron oxide



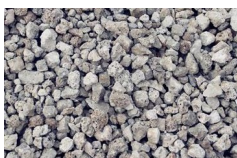
Ceramic powder



Clay soil



Fly ash



Furnace slag



*Furthermore, these materials that are shown, please do not hesitate to contact us for consulting*