



**GEOHM | 5**  
EARTH | CLAMP

# Professional Testing Convenience for Earthing Measurement

Precise measurement of earthing resistance is an imperative safety precaution in many areas of electrical engineering – from machinery manufacturing and electrical installation, right on up to lightning protection systems. The GEOHM 5 battery powered earth tester provides you with a professional measuring instrument to this end: It measures earth resistance in accordance with all common methods, and ascertains soil resistivity values for reliable earthing.

## Features

- Earth resistance
- Selective earth resistance
- Soil resistivity
- Conventional 3 or 4-pole measurement
- Current measurement (TRMS) via clip-on meter (optional)
- Monitoring of interference voltage and secondary resistance with alarm function
- Data memory for 250 measurements
- Single and 2-clip measurement (optional)
- Rechargeable battery operation with direct charging (optional)
- Data interface to PC



The measuring instrument is in compliance with European safety standard EN 61010-1. EMC (electromagnetic compatibility) fulfills European standard EN 61326. Utilized measuring methods are set forth in European standard EN 61557, part 5 (EN 61557-5 earthing resistance).



The outstanding measuring accuracy provided by the GEOHM 5 makes it possible to lay out earthing resistance as precisely as possible. This stabilizes electrical supply quality during normal operation, and minimizes the risk of damage in the event of overvoltage.

## Qualified for All Measuring Methods

The GEOHM 5 covers all conceivable measuring tasks and procedures. This makes it possible to conduct conventional measurement in accordance with VDE 0413, part 5, for which the earth electrode to be measured is disconnected. Beyond this, the instrument is also suitable for single and two-clip methods without disconnecting the earth electrode. Of course soil resistivity and ohmic resistance can also be determined in accordance with the current-voltage measuring method.

## Innovative Technology – Broad Range of Applications

The applications in which the GEOHM 5 can be used are just as diverse as its measuring functions. The range of applications covers testing for private, commercial and industrial systems. The GEOHM 5 is easy to transport and boasts a rugged design – ideal for indoor as well as outdoor testing. It can be operated with batteries, or with optional rechargeable batteries.

## User-Friendly Handling Concept

The GEOHM 5 is distinguished by easy, reliable handling for everyday use. Results, parameters and additional notes appear at the large format display in a clear-cut fashion. The compact housing is made of impact resistant plastic. Components which are subject to extensive wear, such as the rotary switch and the lid hinge, are of especially rugged design, and the keypad is protected against water. The GEOHM 5 is virtually maintenance-free thanks to SMD technology.

## Reliable Storage of Test Results

The GEOHM 5 is equipped with enough memory capacity for 250 test results, including parameters and auxiliary values. Stored information can be transmitted to a PC via the RS 232 interface.



## Technical Data

### Function (per EN 61557)

Measuring voltage	40V
Measuring frequency	125 / 150 Hz
Rs	Max. 50 k $\Omega$
Rh	Max. 50 k $\Omega$

### 3-pole measurement / 4-pole measurement

Measuring range	0.11 $\Omega$ ... 19.99 k $\Omega$
Resolution	0.01 $\Omega$ ... 10 $\Omega$
Measuring error	$\pm$ (2% rdg. + 3 d)

### 3-pole selective measurement with clip-on meter

Measuring range	0.11 $\Omega$ ... 1.99 k $\Omega$
Resolution	0.01 $\Omega$ ... 10 $\Omega$
Measuring error	$\pm$ (2% rdg. + 3 d)

### 4-pole selective measurement with clip-on meter

Measuring range	0.00 $\Omega$ ... 1.99 k $\Omega$
Resolution	0.01 $\Omega$ ... 10 $\Omega$
Measuring error	$\pm$ (2% rdg. + 3 d)

### 2-clip measuring method

Measuring range	0.0 $\Omega$ ... 100 k $\Omega$
Resolution	0.1 $\Omega$ ... 1 $\Omega$
Measuring error	$\pm$ (10% rdg. + 2 d)

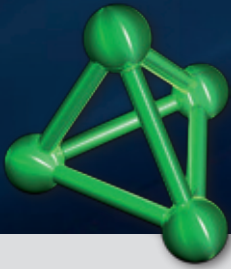
Key: d = digit(s), rdg. = reading (measured value)

## Scope of Delivery

- Earth tester
- Stackable system hard-case
- Neck strap
- 1 set of batteries
- 4 earth spikes
- 4 measurement cables
- Operating Instructions

## Optional Accessories

- E-Clip 1 clip-on meter with connector cable and laboratory safety plug
- E-Clip 2 clip-on generator with laboratory plug inputs
- 9.6V charger / power-pack with 4 rechargeable batteries



## GOSSEN METRAWATT

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