## Touth and Ready for the Field



2-or 3-Pole farth Besistance Testing


Utilizing Three-electrode Method

## Field-tough. Site-ready. So you can get down to work.

Introducing an earth resistance tester engineered to handle dirt with true grit


IP67 protection, even with the terminal caps open
IP67
No ingress of water even if temporarily submerged under defined conditions of pressure thanks to watertight design
No ingress of dust thanks to dust-proof enclosure

Vibration-resistant design


Drop-proof
The FT6031-03 is engineered to withstand being dropped onto concrete from a height of 1 m .

Large, easy-to-ready display

The FT6031-03's large LCD panel features a wide viewing angle for improved visibility outdoors.
 measurement. Automatic switching of connections internally eliminates the need to use a short bar or other apparatus.

Ground types

| Type | Criterion | Locations used |
| :---: | :---: | :---: |
| Class A | $10 \Omega$ | Special high voltage, <br> high voltage |
| Class B | As per <br> calculations | Transformer neutral <br> point |
| Class C | $10 \Omega / 500 \Omega^{*}$ | Low voltages in <br> excess of 300 V |
| Class D | $100 \Omega / 500 \Omega^{*}$ | Low voltages of 300 V <br> or less |
| *W |  |  |

## Pole-mounted transformer



Automatic pre-check
The FT6031-03 automatically checks cables for line breaks and the ground potential (noise) before measurement. A warning is shown if either check yields a FAIL result, allowing you to quickly assess the situation.


High precision \& zero-adjustment
The FT6031-03 delivers high accuracy of $\pm 1.5 \%$ rdg. $\pm 8$ dgt. The zero-adjustment function aids in delivering even better accuracy by canceling the wiring resistance of long measurement cable runs.

## Three-electrode measurement

(for measurement classes A through D) Measurement is performed after inserting a auxiliary grounding rod into the soil. For accurate measurement, position $\mathrm{E}-\mathrm{S}(\mathrm{P})-\mathrm{H}(\mathrm{C})$ in a straight line at an interval of about 5 to 10 m .

## Two-electrode measurement

 (for measurement class D) Class D ground installations can bemeasured by using the Class $B$ ground of $a$ pole-mounted transformer. The measured value will include the resistance value of the Class B ground. The distribution panel's main ground terminal is typically connected to the power supply's ground line.

## Fast-track preparations, measurement, and cleanup



## You only need to do it once...

The tolerance for the supplemental grounding electrode's resistance has been increased by a factor of 10 , eliminating the inconvenience of inserting and reinserting auxiliary grounding rods over and over again every time the resistance tolerance is exceeded due to dry soil or other non-optimal conditions.
Repeated insertions .... Single insertion


You need only press the MEASURE button.
The FT6031-03 automatically checks the ground potential, checks the auxiliary grounding electrode, and measures the grounding resistance. Auto-ranging operation eliminates the need to switch ranges, enabling efficient measurement.


Ground potential Auxiliary grounding electrode check


Grounding resistance measurement (Auto-ranging)


It's easy to check the auxiliary grounding electrode's resistance value and the ground potential value.
$S(P)$ electrode/H(C) electrode resistance value


Toggle with the DISPLAY button.


Ground potential value


Tangle- and twist-free measurement cord winders

Easily rewind
measurement cords, even if they're 20 m long.

Measurement cord retrieval is a time-consuming part of grounding resistance measurement. The FT6031-03's newly developed winders allow cords to be rewound about twice as quickly as with conventional reels.



Insert this plug into the instrument's
Auxiliary grounding rods can be stowed here.


Specifications

*1 If the auxiliary grounding resistance is $5 \mathrm{k} \Omega$ or greater, $0.1 \Omega$. $\quad *_{2}$ According to the requirements regarding the limits for open-circuit voltage in EN 61557-5

## Model : EARTH TESTER FT6031

Model No. (Order Code)
FT6031-03

## Accessories

AUXILIARY EARTHING ROD L9840

MEASUREMENT CABLE L9842-11

MEASUREMENT CABLE L9842-22

Yellow $10 \mathrm{~m}(32.81 \mathrm{ft})$ length, equipped with winder


Red $20 \mathrm{~m}(65.62 \mathrm{ft})$ length, equipped with winder

MEASUREMENT CABLE CARRYING CASE L9841 C0106



Alligator clip, black 4 m ( 13.12 ft ) length

Options
MEASUREMENT CABLE L9843-51


Yellow $50 \mathrm{~m}(164.06 \mathrm{ft})$ length, equipped with flat cable winder

MEASUREMENT CABLE
L9843-52


Red $50 \mathrm{~m}(164.06 \mathrm{ft})$ length, equipped with flat cable winder


L9844


For earthing terminal board, red/yellow/black $1.2 \mathrm{~m}(3.94 \mathrm{ft})$ each length

EARTH NETS 9050 L9787

For simplified measurement method, indoor use only, red and black $1.2 \mathrm{~m}(3.94 \mathrm{ft})$ each length

HIOKI E.E. CORPORATION

## HEADQUARTERS

81 Koizumi, Ueda, Nagano, 386-1192, Japan
TEL +81-268-28-0562 FAX +81-268-28-0568
http://www.hioki.com / E-mail: os-com@hioki.co.jp

HIOKI (Shanghai) SALES \& TRADING CO., LTD.
TEL +86-21-63910090 FAX +86-21-63910360 http://www.hioki.cn / E-mail: info@hioki.com.cn

HIOKI SINGAPORE PTE. LTD
TEL +65-6634-7677 FAX +65-6634-7477
E-mail: info-sg@hioki.com.sg
HIOKI KOREA CO., LTD.
TEL +82-2-2183-8847 FAX +82-2-2183-3360
E-mail: info-kr@hioki.co.jp

HIOKI USA CORPORATION
TEL +1-609-409-9109 FAX +1-609-409-9108
http://www.hiokiusa.com / E-mail: hioki@hiokiusa.com

