Specifications (Accuracy guaranteed for 1 year)

Measurement system	Two-electrode method/three-electrode method (switchable)						
Range configuration	Range (auto range)	Display range	Resolution			Accuracy/	
			3 electrode	2 electrode		Accuracy	
	20 Ω	0 to 20.00 Ω	0.01 Ω ^{*1}	-	±	1.5 %rdg.±8 dgt.	
	200 Ω	0 to 200.0 Ω	0.1 Ω	1 (2 ±	1.5 %rdg.±4 dgt.	
	2000 Ω	0 to 2000 Ω	1Ω	1 (2 ±	1.5 %rdg.±4 dgt.	
Measuring frequency	128Hz±2Hz						
Measuring time	Three-electrode method: Within 6 seconds (effective measurement time including disturbance voltage check and auxiliary ground- ing electrode check: 3 sec. [representative value]), Two-electrode method: Within 3 seconds						
Measurement current	Three-electrode method: 25 mA rms or less, Two-electrode method: 4 mA rms or less						
Resistance tolerance of auxiliary earthing electrode	20 Ω range: 5 kΩ, 200 Ω range: 50 kΩ, 2000 Ω range: 50 kΩ						
Earth potential measurement							
Allowable earth potential	25.0 Vrms (DC or sine wave)						
Operating temperature	-25°C to 65°C (-13°F to 149°F)						
Operating humidity	-25°C to 40°C: 80 % rh or less (non-condensing) 40°C to 45°C: 60 % rh or less (non-condensing) 45°C to 50°C: 50 % rh or less (non-condensing) 50°C to 55°C: 40 % rh or less (non-condensing) 55°C to 60°C: 30 % rh or less (non-condensing) 60°C to 65°C: 25 % rh or less (non-condensing)						
Storage temperature and humidity							
Operating environment	Indoor, outdoor (excluding farmland ²) pollution degree 3, altitude up to 2,000 (6,562-ft.)						
Power supply	LR6 Alkaline battery × 4						
Possible number of mea-	500 times (measurement conditions: three-electrode method, auxiliary earthing electrode resistance 100 Ω , measuring 10 Ω at the						
surements on new batteries	20 Ω range in 10-second intervals without Z3210 installed)						
Dustproof and waterproof	IP65/IP67 (EN60529)						
Drop-proof	1 m above concrete (with protector attached)						
Maximum rated voltage to earth	100 V AC/DC (measurement category IV), 150 V AC/DC (measurement category III), 300 V AC/DC (measurement category II), anticipated transient overvoltage 2500 V						
Functions	Live wire warning, zero-adjustment, continuous measurement mode, radio communication (only when Z3210 is installed), comparator						
Applicable standards) (main unit), EN 61010	<u> </u>		MC: EN 61326	Earth tester: EN 61557	
Dimensions	185 W × 111H × 44D mm (7.28" W × 4.37" H × 1.73" D) (including protector, excluding terminal covers)						
Mass	570 g(20.1 oz.) (including batteries and protector, excluding other accessories)						
Accessories	Auxiliary Earthing Rod L9840 (2 piece set) x1, Measurement Cable (alligator clip, black 4 m) L9841x1, Measurement Cable (yellow 10 m, equipped with winder) L9842-11x1, Measurement Cable (red 20 m, equipped with winder) L9842-22x1, Carrying Case x1, Protectorx1, LR6 Alkaline battery x4, Instruction manualx1						
	* 4 14 44	and the state of the state of the FLIC		O A + - + - +	a sector as a set of a second to a star of the	limite for open-circuit voltage in EN 61557-5	

*1 If the auxiliary grounding resistance is 5 kΩ or greater, 0.1 Ω. *2 According to the requirements regarding the limits for open-circuit voltage in EN 61557-5

Model : EARTH TESTER FT6031-50 Add wireless communication capability by connecting WIRWLESS ADAPTER Z3210 Model No. (Order Code) 🔀 GENNECT Cross FT6031-50 WIRELESS ADAPTER FT6031-50 KIT Set of FT6031-50 + Z3210 Transfer measurements to your phone or tablet. Generate reports with site photos and drawings with the free app GENNECT For mo 6031-50 KI Cross Accessories Options MEASUREMENT CABLE EARTH NETS AUXILIARY EARTHING ROD MEASUREMENT CABLE L9842-11(Yallow), -22(Red) L9843-51(Yallow), -52(Red) Z3210 L9840 9050 -11: 10 m (32.81 ft) length, Each 50 m (164.06 ft) length, Bluetooth® For additional wireless 2 sheets in set, 2 piece set, 270 mm (10.62") length, $300 \,\mathrm{mm} \times 300 \,\mathrm{mm} (39.37'' \times 39.37'')$ Red 20 m (65.62 ft) length, equipped with flat cable winder communication functions $\phi 6 \text{ mm} (0.24^{\circ})$, stainless steel equipped with winder

MEASUREMENT CABLE L9841 Alligator clip, black 4 m (13.12 ft) length

CARRYING CASE C0106

 $324\,mm\,W\times310\,mm\,H\times125\,mm\,D$ (12.8" W×12.2" H×4.92" D)

MEASUREMENT CABLE L9844

For earthing terminal board, red/yellow/black 1.2 m (3.94 ft) each length

TEST LEAD L9787 For simplified me nent method, indoor use only, red and black 1.2 m (3.94 ft) each length

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egional contac

All information correct as of May 14, 2022. All specifications are subject to change without notice





WIRELESS ADAPTER





For more information on supported regions and products, please visit this dedicated site.



and drawings.



ΗΙΟΚΙ



EARTH TESTER FT6031-50 KIT NEW

Tough and Ready for the Field IP67 Justproof and Waterproof

Compatible with wireless adapter Z3210 (optional). It transfers measurements to your smartphone or tablet and allows you to quickly create reports with field photos



□ →)) Wireless Ada

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

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





Automatic pre-check

The FT6031-50 automatically checks

cables for line breaks and the

HOLD

0Ω AD

HOLD INDISE

 \square

The FT6031-50 delivers high

accuracy of $\pm 1.5\%$ rdg. ± 8 dgt. The zero-adjustment function aids in

delivering even better accuracy by

canceling the wiring resistance of

long measurement cable runs.

I V

RE

3 POLE

3 POLE

disturbance voltage (noise) before

measurement. A warning is shown if

either check yields a FAIL result, allowing

Cable

break

Disturbance

voltage fault

IP67 protection, even with the terminal caps open

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

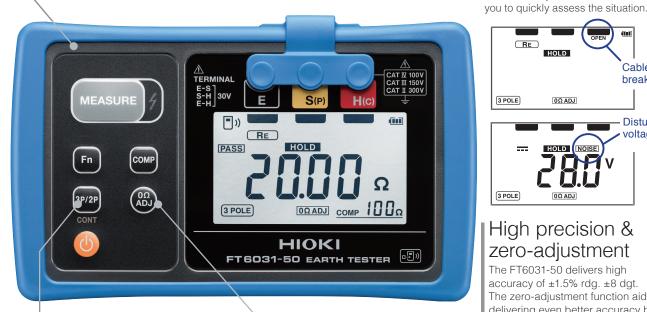
Vibration-resistant design

Drop-proof

The FT6031-50 is engineered to withstand being dropped onto concrete from a height of 1 m.

display The FT6031-50's large LCD panel features a wide viewing angle for improved visibility outdoors.

Large, easy-to-ready

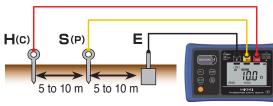


2

At least 5 m

Two- or three-electrode measurement

Choose either two- or three-electrode measurement. Automatic switching of connections internally eliminates the need to use a short bar or other apparatus.



Max. 250 V AC

E H(c)

Ground types

a typeo		
Criterion	Locations used	
10 Ω	Special high voltage, high voltage	
As per calculations	Transformer neutral point	
10 Ω/500 Ω*	Low voltages in excess of 300 V	
100 Ω/ 500 Ω*	Low voltages of 300 V or less	
	10 Ω As per calculations 10 Ω/500 Ω*	

Three-electrode measurement (for measurement classes A through D) Measurement is performed after serting a auxiliary earthing rod into the

soil. For accurate measurement, position S(P)-H(C) in a straight line at an erval of about 5 to 10 m

Two-electrode measurement (for measurement class D) Class D ground installations can be measured 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.

Thin for a reason





After

almost no change in their

arounding resistance, the FT6031-50 uses thinner rods that

are easier to drive into the ground.

Thick rods had to be hammered into the ground and were difficult to remove

........... You need only press the MEASURE button.

stainless steel

The FT6031-50 uses hard,

rust-resistant rods made of

The FT6031-50 automatically checks the disturbance voltage, checks the auxiliary grounding electrode, and measures the grounding resistance. Auto-ranging operation eliminates the need to switch ranges, enabling efficient measurement.



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



Vleasuremen

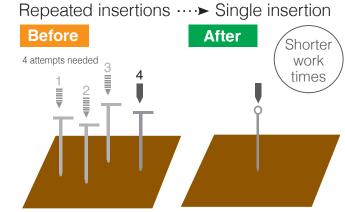
Cleanup



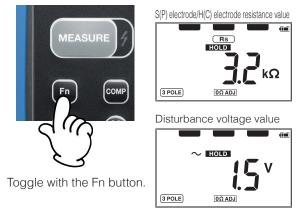
You only need to do it once...

Since variations in the thickness of auxiliary earthing rods cause

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 earthing rods over and over again every time the resistance tolerance is exceeded due to dry soil or other non-optimal conditions.

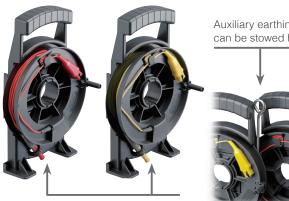


It's easy to check the auxiliary grounding electrode's resistance value and the disturbance voltage value.





Measurement cord retrieval is a time-consuming part of grounding resistance measurement. The FT6031-50's newly developed winders allow cords to be rewound about twice as quickly as with conventional reels.



Insert this plug into the instrument's S(P)/H(C) terminal and pull out the cord. Auxiliary earthing rods can be stowed here.

