HIOKI

ANALOG EARTH TESTER FT3151

NEW

Rewind with Ease

Three-electrode measurement
Two-electrode measurement (Simple Measurement)



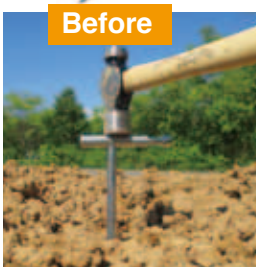
Dramatically faster set-up and break-down

Prep

Thin for a reason



Since variations in the thickness of auxiliary grounding rods cause almost no change in their grounding resistance, the FT3151 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.



The FT3151 uses hard, rust-resistant rods made of stainless steel.

Cleanup

Tangle- and twist-free measurement cord winders



3 years
Guaranteed for 3 years

CE

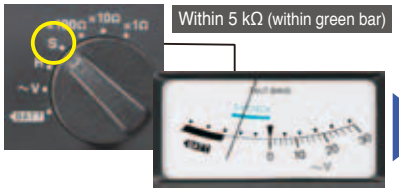
Ensuring safe, reliable measurement

~V Ground potential check



Easily check for ground potential.Distorted ground potential can result in measurement errors, so it's important to eliminate any impact, for example by turning off electrical devices.

H(C) S(P) Auxiliary grounding resistance check



When measuring an installation with low grounding resistance, inadequate measurement sensitivity can interfere with measurement. The FT3151 lets you check the auxiliary grounding electrode S (P), too.

Measurement Turn the knob to align the ammeter with the [▼] mark.



If the ammeter's needle wavers...

Switch measurement frequencies.



This will make the instrument less susceptible to the effects of harmonic ground potential and other conditions.

Specifications

(Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)

Measurement system	Two-electrode method/three-electrode method (switchable), AC potentiometer method			
Grounding resistance measurement (Measurement range)	Range	Display range	Nominal Deviation	Measuring frequency: 575 Hz/600 Hz, Nominal Deviation: ±10 % Measurement current: Three-electrode method: 15 mA rms or less Two-electrode method: 3 mA rms or less Open circuit voltage: AC50 V rms or less
	10 Ω	0 to 11.5 Ω	±0.25 Ω	
	100 Ω	0 to 115 Ω	±2.5 Ω	
	1000 Ω	0 to 1150 Ω	±25 Ω	
Earth potential measurement	0 to 30 V, Nominal Deviation: ±3.0 % f.s.			
Operating temperature and humidity	0°C to 40°C (32°F to 104°F), 80 % rh or less (non-condensing)			
Storage temperature and humidity	-10°C to 50°C (14°F to 122°F), 80 % rh or less (non-condensing)			
Operating environment	Indoor, outdoor (excluding farmland*1) pollution degree 2, altitude up to 2000m (6,562-ft.)			
Power supply	LR6 Alkaline battery × 6			
Number of uses	Approx 1100 operations (using LR6 battery), Measurement conditions: 30 sec. measurement/30 sec. rest, 3-electrode method, 575 Hz, auxiliary grounding electrode resistance of 100 Ω, measuring 10 Ω in the instrument's ×1 Ω range			
Maximum rated voltage to earth	300 V AC (measurement category II) anticipated transient overvoltage 2500 V			
Overload protection	250 V AC, 1 minute (between E - S (P), E - H (C) terminals)			
Applicable standards	Safety (instrument/measurement circuitry): EN 61010, EMC: EN 61326, Grounding resistance meter: EN 61557			
Dimensions and mass	164 (W) × 119 (H) × 88 (D) mm (6.46″ W × 4.69″ H × 3.46″ D)(not including protrusions), 760 g (26.8 oz.)(main unit only)			
Accessories	Auxiliary Earthing Rod L9840 (2 piece set) ×1, Measurement Cable (alligator clip, black 4 m) L9841×1, Measurement Cable (yellow 10 m, equipped with winder) L9842-11×1, Measurement Cable (red 20 m, equipped with winder) L9842-22×1, Carrying Case ×1, Protector×1, LR6 Alkaline battery ×6, Instruction manual×1			

*1 According to the requirements regarding the limits for open-circuit voltage in EN 61557-5

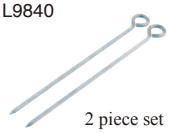
Model

ANALOG EARTH TESTER **Order Code: FT3151**

Accessories



AUXILIARY EARTHING ROD L9840



2 piece set

MEASUREMENT CABLE L9841



Alligator clip, black 4 m (13.12 ft) length

MEASUREMENT CABLE L9842-11



Yellow 10 m (32.81 ft) length, equipped with winder

MEASUREMENT CABLE L9842-22



Red 20 m (65.62 ft) length, equipped with winder

CARRYING CASE C0106



Options

MEASUREMENT CABLE L9843-51



Yellow 50 m (164.06 ft) length, equipped with flat cable winder

MEASUREMENT CABLE L9843-52



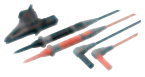
Red 50 m (164.06 ft) length, equipped with flat cable winder

MEASUREMENT CABLE L9844



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

TEST LEAD L9787



For simplified measurement method, indoor use only, red and black 1.2 m (3.94 ft) each length

EARTH NETS 9050



2 sheets in set

SHOULDER STRAP Z5022



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All information correct as of Oct. 18, 2016. All specifications are subject to change without notice.

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