

ANALOG EARTH TESTER FT3151

even if they're 20 m long

Rewind with Ease

Thick rods had to be

hammered into the ground

and were difficult to remove

Three-electrode measurement
Two-electrode measurement (simple measurement)



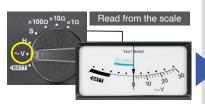
The FT3151 uses hard,

stainless steel

rust-resistant rods made of

Ensuring safe, reliable measurement

∼ V Disturbance voltage check



Easily check for Disturbance voltage. Distorted Disturbance voltage can result in measurement errors, so it's important to eliminate any impact, for example by turning off electrical deH(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 Disturbance voltage and other conditions.

Specifications (Accuracy guaranteed for 1 year)

Measurement system	Two-electrode method/three-electrode method (switchable), AC potentiometer method			
Grounding resistance	Range	Display range	Nominal deviation	Measuring frequency: 575 Hz/600 Hz, nominal deviation: ±10 %
measurement	10 Ω	0 to 11.5 Ω	±0.25 Ω	Measurement current: Three-electrode method: 15 mA rms or less
(Measurement range)	100 Ω	0 to 115 Ω	±2.5 Ω	Two-electrode method: 3 mA rms or less
	1000 Ω	0 to 1150 Ω	±25 Ω	Open circuit voltage: AC 50 V rms or less
Disturbance voltage 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 2000 m (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



AUXILIARY EARTHING ROD

2 piece set, stainless steel 270 mm (10.63 in) length MEASUREMENT CABLE

FT3151

Order Code:

Alligator clip black 4 m (13.12 ft) length **MEASUREMENT CABLE** L9842-11



Yellow 10 m (32.81 ft) length, equipped

MEASUREMENT CABLE L9842-22



CARRYING CASE



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 **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



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Contact: +971507924960 Email: sales@industrytechstore.com Website: www.industrytechstore.com

