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ANALOG EARTH TESTER FT3151

NEW



Rewind with Ease

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



no change in their grounding resistance, the FT3151 uses thinner rods that are easier to drive into the ground

Before

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

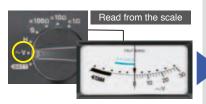


resistant rods made of stainless



Ensuring safe, reliable measurement





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),

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	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: AC50 V rms or less
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

MEASUREMENT CABLE

Accessories



Options MEASUREMENT CABLE L9843-51



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

AUXILIARY EARTHING ROD

2 piece set

MEASUREMENT CABLE

Red 50 m (164.06 ft) length,

equipped with flat cable winder

L9843-52

Alligator clip.

black 4 m (13.12 ft) length

L9844

MEASUREMENT CABLE

low/black 1.2 m (3.94 ft) each

MEASUREMENT CABLE

indoor use only, red and black 1.2 m



TEST LEAD

(3.94 ft) each length

For earthing terminal board, red/yel- For simplified measurement method,

Yellow 10 m (32.81 ft) length, equipped

MEASUREMENT CABLE L9842-22



Red 20 m (65.62 ft) length, equipped



EARTH NETS



2 sheets in set



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