

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	
	20 Ω	0 to 200.0 Ω	0.01 Ω ^{*1}	-	
	200 Ω	0 to 200.0 Ω	0.1 Ω	1 Ω	±1.5 %rdg.±4 dgt.
	2000 Ω	0 to 2000 Ω	1 Ω	1 Ω	±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 grounding 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	0 to 30.0 Vrms Accuracy: ±2.3 %rdg.±8 dgt. (50/60Hz), 1.3 %rdg.±4 dgt. (DC)				
Allowable earth potential	25.0Vrms (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	-25°C to 65°C: 80 % rh or less (non-condensing)				
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 measurements on new batteries	500 times (measurement conditions: three-electrode method, auxiliary earthing electrode resistance 100 Ω, measuring 10 Ω at the 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	Safety: EN 61010 (main unit), EN 61010 (measuring circuit)		EMC: EN 61326	Earth tester: EN 61557	
Dimensions	185 W × 111 H × 44 D 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) ×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 ×4, Instruction manual×1				

*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


Model No. (Order Code)

FT6031-50


FT6031-90 Set of FT6031-50 + Z3210 (Recommended)




Add wireless communication capability by connecting WIRELESS ADAPTER Z3210




WIRELESS ADAPTER Z3210



FT6031-50



Transfer measurements to your phone or tablet. Generate reports with site photos and drawings with the free app GENNECT Cross




For more information, visit the GENNECT Net website.

Accessories




AUXILIARY EARTHING ROD L9840
2 piece set, 270 mm (10.62") length, φ 6 mm (0.24"), stainless steel



MEASUREMENT CABLE L9842-11(Yellow), -22(Red)
-11: 10 m (32.81 ft) length, Red 20 m (65.62 ft) length, equipped with winder




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



CARRYING CASE C0106
324 mm W × 310 mm H × 125 mm D (12.8" W × 12.2" H × 4.92" D)


Options



MEASUREMENT CABLE L9843-51(Yellow), -52(Red)
Each 50 m (164.06 ft) length, equipped with flat cable winder



EARTH NETS 9050
2 sheets in set, 300 mm × 300 mm (39.37" × 39.37")



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



WIRELESS ADAPTER Z3210
Bluetooth® For additional wireless communication functions



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