

CLAMP ON EARTH TESTER FT6380, FT6381



FT6381 Data transfer to Android[™] phones using *Bluetooth[®]* wireless technology.* Real time data transfer, automatic report generation on Android[™] phone.



* Please download and install the "FT6381 Communication Software" from the Google PlayTM store in order to use the wireless connection function with an AndroidTM phone. The software is free, but the user is responsible for any Internet connection costs incurred in the course of downloading or using the application.

Get Things Done with Super Slim Jaws

Easy clamping!

Open jaws easily with just two fingers. Only half the grip power is needed compared to typical clamp earth testers.

Clamp at the narrowest point!

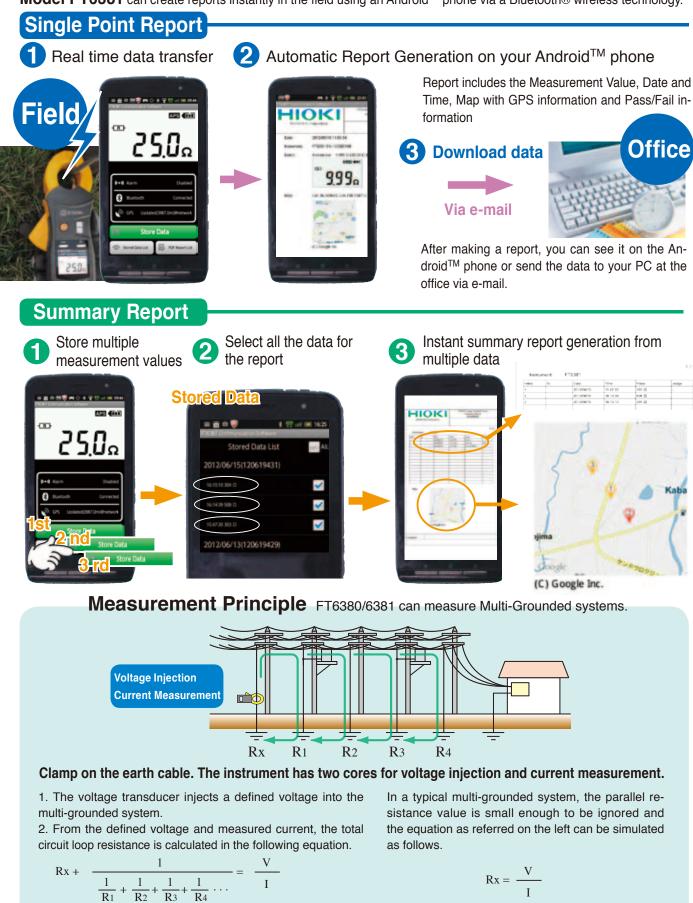
Now you can easily clamp the earth cable on the pole without digging. The dramatically slim 0.79 inch (20mm) jaws let you finish your job easily and efficiently.

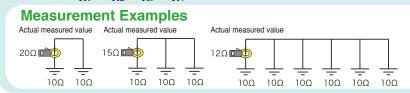


Automatic Report Generation 8 Bluetooth

Please see www.hioki.com for st of supported regions.

Model FT6381 can create reports instantly in the field using an Android[™] phone via a Bluetooth[®] wireless technology.





In multi-grounded system, the larger the number of grounding poles, the more accurate the measured value. Where the number of grounding poles are few, if just only one carries a very small resistance (e.g., 1 Ω), the measured value will be close to the true value. On the other hand, poles with large resistances (e.g., 100 Ω) will result in greater measurement uncertainties.

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

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Display		Digital/ LCD, max. 2000 digits	Display update r	ate: 2 times / s	
Range switching		Auto-range			
Maximum conductor diameter for measurement		ø 32 mm (1.26 in)			
Power supply		LR6 alkaline battery ×2, Continuous operating time: Approx. 35 hours With display backlight off, Bluetooth OFF (FT6381)			
Auto power save		Power save state when 5 minutes have elapsed since the last operation			
Operating temperature and humidity		-10°C (14°F) to 50°C (122°F), 80 % RH or less (non-condensation)			
Storage temperature and humidity		-20°C (-4°F) to 60°C (140°F), 80 % RH or less (non-condensation, except for the battery)			
Dust-proof and waterproof		IP40 (EN60529) With Jaws Closed			
Maximum rated voltage to earth		600 VAC measurement category IV (anticipated transient overvoltage 8000 V)			
Dielectric strength		Between the Case and the Clamp core 7400 Vrms 1 minute			
Maximum input current		100 A AC continuous, 200 A AC for 2 minutes (50/60 Hz)			
Conductor position effects		Within ±0.5% rdg. (using the center of the sensor as the reference, in all positions)			
Magnetic field interference		10 mA or less in an external magnetic field of 400 A/m at 50/60 Hz AC			
Applicable standards		Safety: EN61010, EMC: EN61326, Wireless (For FT6381 only): FCC Part 15.247/ IC RSS-210/ EN 300 328, 301 489-1, 301-489-17/ Singapore DA106438/ Mexico (COFETEL) RCPHIWT13-0616/ Vietnam wireless standards not covered(60mWeirp or less)/ thailand (SDoC) module recognize/ Indonesia (SDPPI) 33081/ SDPPI/ 2014			
Dimensions, Mass		Approx. 73 mm (2.87 in) W × 218 mm (8.58 in) H × 43 mm (1.69) D , Approx 620 g (21.9 oz)			
FT6381 Interface		·	Alarm function		
Interface	Blueto	oth® v2.1+EDR		Separate Hi/Lo settings for resistance measurement	
Communication Distance	Communication Distance 10 m (Class 2		Alarm Hi/Lo	and current measurement	

Android[™] 2.1 or later Applicable OS The application supports Android OS 2.1 or later, but proper operation is not guaranteed on all Android. handsets. For more information about the devices on which proper operation has been confirmed, see Hioki's website.

Communication Protocol

Compatibility

(
8 mm (8.58 in) H ×	43 mm (1.69) D , Approx 620 g (21.9 oz)	
Alarm function		
	Separate Hi/Lo settings for resistance measurement and current measurement	
Alarm Hi/Lo	Resistance measurement: Hi.AL/Lo.AL	
	Current measurement: Hi.AL/Lo.AL	
Alarm threshold setting range	Resistance measurement: 0.02 Ω to 1,600 Ω Resistance measurement initial value: 25.0 Ω	
	Current measurement: 0.05 mA to 200.0 mA, 0.201 A to 60.0 A Current measurement initial value: 1.00 mA	

Current Mode Accuracy guaranteed for 1 year, Temperature and humidity for guaranteed accuracy:23±5°C 80%rh or less (no condensation)

SPP (Serial Port Profile)

Smartphone/ Tablet (Android™)

Range Measurement Range		Resolution	Frequency Range	Accuracy		
			Trequency hange	Filter off	Filter on	
20.00 mA 1.00 mA to	20.00 mA	0.01 mA	$45 \le f \le 66Hz$	±2.0 % rdg. ±0.05 mA	±2.0 % rdg. ±0.05 mA	
			$30 \le f < 45$ Hz, $66 < f \le 400$ Hz	±2.5 % rdg. ±0.05m A	_	
200.0 mA	200.0 mA 18.0 mA to	200.0 m A	0.1 mA	$45 \le f \le 66Hz$	±2.0 % rdg. ±0.5 mA	±2.0 % rdg. ±0.5 mA
200.0 IIIA 18.0 IIIA 10	200.0 IIIA	0.1 IIIA	$30 \le f < 45$ Hz, $66 < f \le 400$ Hz	±2.5 % rdg. ±0.5m A	_	
2.000 A	2.000 A 0.180 A to	2 000 4	0.001 A	$45 \le f \le 66Hz$	±2.0 % rdg. ±0.005 A	±2.0 % rdg. ±0.005 A
2.000 A 0.160 A 10	2.000 A	0.001 A	$30 \le f < 45$ Hz, $66 < f \le 400$ Hz	±2.5 % rdg. ±0.005 A	—	
20.00 A 1.80 A to	20.00 A	0.01 A	$45 \le f \le 66Hz$	±2.0 % rdg. ±0.05 A	±2.0 % rdg. ±0.05 A	
			$30 \le f < 45$ Hz, $66 < f \le 400$ Hz	±2.5 % rdg. ±0.05 A	_	
60.0 A 18.0 A	18 0 A to	o 60.0 A	0.1 A	$45 \le f \le 66Hz$	±2.0 % rdg. ±0.5 A	±2.0 % rdg. ±0.5 A
	16.0 A to			$30 \le f < 45$ Hz, $66 < f \le 400$ Hz	±2.5 % rdg. ±0.5 A	_

Accuracy guaranteed for 1 year, Temperature and humidity for guaranteed **Resistance mode**

accuracy:23±5°C 80% RH or less (no condensation)							
Range	Measurem	ent Range	Resolution	Accuracy			
0.20 Ω	0.02 Ω	to 0.20 Ω	0.01 Ω	±1.5 % rdg.	±0.02 Ω		
2.00 Ω	0.18 Ω	to 2.00 Ω	0.01 Ω	±1.5 % rdg.	±0.02 Ω		
20.00 Ω	1.80 Ω	to 20.00 Ω	0.01 Ω	±1.5 % rdg.	±0.05 Ω		
50.0 Ω	18.0 Ω	to 50.0 Ω	0.1 Ω	±1.5 % rdg.	±0.1 Ω		
100.0 Ω	50.0 Ω	to 100.0 Ω	0.1 Ω	±1.5 % rdg.	±0.5 Ω		
200.0 Ω	100.0 Ω	to 200.0 Ω	0.2 Ω	±3.0 % rdg.	±1.0 Ω		
400 Ω	180 Ω	to 400 Ω	1 Ω	±5 % rdg.	±5 Ω		
600 Ω	400 Ω	to 600 Ω	2 Ω	±10 % rdg.	±10 Ω		
1200 Ω	600 Ω	to 1200 Ω	10 Ω	±20 % rdg.			
1600 Ω	1200 Ω	to 1600 <u>Ω</u>	20 Ω	±35 % rdg.			

Frequency of measurement Approx. 2,400Hz.



FT6380

FT6381 Built in Bluetooth® wireless technology

Accessories: Carrying case ×1, Resistance check loop (1 Ω , 25 Ω) ×1, Strap ×1, LR06 (AA) alkaline battery ×2, Instruction manual ×1

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All information correct as of Dec. 26, 2016. All specifications are subject to change without notice.

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