



CLAMP ON EARTH TESTER FT6380, FT6381



CAT IV 600 V

FT6381 Data transfer to Android[™] phones using Bluetooth[®] wireless technology.* Real time data transfer, automatic report generation on AndroidTM 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 Bluetooth For the U.S./Canada/Europe/Japan only

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

Current measurement initial value: 1.00 mA

Carrying Case

Resistance Check Loop

Display	Digital/LCD, max. 2000 digits Display update rate: 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)				
Dustproof 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 $\pm 0.5\%$ 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				
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)				
Accessories	Carrying Case×1, Resistance Check Loop×1, Strap×1, Instruction Manual×1, Alkaline Battery(LR6)×2				

FT6381 Interface		Alarm function		
Interface	Bluetooth® v2.1+EDR		Separate Hi/Lo settings for resistance measurement	
Communication Distance	10 m (Class 2.1)	Alarm Hi/Lo	and current measurement	
Communication Protocol	SPP (Serial Port Profile)	Alaminin/LU	Resistance measurement: Hi.AL/Lo.AL	
Compatibility	Smartphone/ Tablet (Android™)		Current measurement: Hi.AL/Lo.AL	
Applicable OS	Android [™] 2.1 or later		Resistance measurement: 0.02 Ω to 1,600 Ω	
		Alarm threshold	Resistance measurement initial value: 25.0 Ω	
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.		setting range	Current measurement: 0.05 mA to 200.0 mA, 0.201 A to 60.0 A	

which proper operation has been confirmed, see Hioki's website.

Resistance mode Accuracy guaranteed for 1 year, Temperature and humidity

	for guaranteed accurac	for guaranteed accuracy:23±5°C 80%rh or less (no condensation)					
Range	Measurement Range	Resolution	Accuracy				
0.20 Ω	$0.02 \ \Omega$ to $0.20 \ \Omega$	0.01 Ω	±1.5 % rdg. ±0.02 Ω				
2.00 Ω	$0.18 \ \Omega$ to $2.00 \ \Omega$	0.01 Ω	±1.5 % rdg. ±0.02 Ω				
20.00 Ω	$1.80~\Omega$ to $20.00~\Omega$	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 Ω	20 Ω	±35 % rdg.				
E 6 (A 2400H							

Frequency of measurement Approx. 2,400Hz.

HIOKI (Shanghai) Sales & Trading Co., Ltd. : TEL +86-21-63910090 FAX +86-21-63910360

Current Mode

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

Accessories

Panga	Range Measurement Range		Frequency Range	Accu	racy
nange			Frequency hange	Filter off	Filter on
20.00 mA 1.	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
			$30 \leq \mathrm{f} < 45\mathrm{Hz}, 66 < \mathrm{f} \leq 400\mathrm{Hz}$	±2.5 % rdg. ±0.05m A	—
200.0 mA	18.0 mA to 200.0 mA	0.1 mA	$45 \le f \le 66Hz$	±2.0 % rdg. ±0.5 mA	±2.0 % rdg. ±0.5 mA
200.0 mA	18.0 IIIA to 200.0 IIIA		$30 \leq \mathrm{f} < 45\mathrm{Hz}, 66 < \mathrm{f} \leq 400\mathrm{Hz}$	±2.5 % rdg. ±0.5m A	—
2.000 A 0.180 A to	0.180 A to 2.000 A	0.001 A	$45 \le f \le 66Hz$	±2.0 % rdg. ±0.005 A	±2.0 % rdg. ±0.005 A
	0.180 A to 2.000 A		$30 \leq \mathrm{f} < 45\mathrm{Hz}, 66 < \mathrm{f} \leq 400\mathrm{Hz}$	±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
20.00 A	1.00 A to 20.00 A		$30 \leq \mathrm{f} < 45\mathrm{Hz}, 66 < \mathrm{f} \leq 400\mathrm{Hz}$	±2.5 % rdg. ±0.05 A	—
60.0 A	18.0 A to 60.0 A	0.1 A	$45 \le f \le 66Hz$	±2.0 % rdg. ±0.5 A	±2.0 % rdg. ±0.5 A
			$30 \leq \mathrm{f} < 45\mathrm{Hz}, 66 < \mathrm{f} \leq 400\mathrm{Hz}$	±2.5 % rdg. ±0.5 A	_

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HIOKI E.E. CORPORATION

Headquarters :

IEL +86-21-63910090 FAX +86-21-63910360 http://www.hioki.cn / E-mail: info@hioki.com.cn Beijing Office : TEL +86-10-84418761 FAX +86-10-84418763 / E-mail: info-bj@hioki.com.cn Guangzhou Office : TEL +86-20-38392673 FAX +86-20-38392679 / E-mail: info-gz@hioki.com.cn Shenzhen Office : TEL +86-755-83038357 FAX +86-755-83039160 / E-mail: info-sz@hioki.com.cn HIOKI INDA DRUATE I IMITED

 HIOKI USA CORPORATION :
 HIOKI SINGAPORE PTE. LTD. :

 TEL +1-609-409-9109
 FAX +1-609-409-9108
 TEL +65-6634-7677

 http://www.hiokiusa.com / E-mail: hioki@hiokiusa.com
 Famail: hioki@hioki.com.sg