



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.

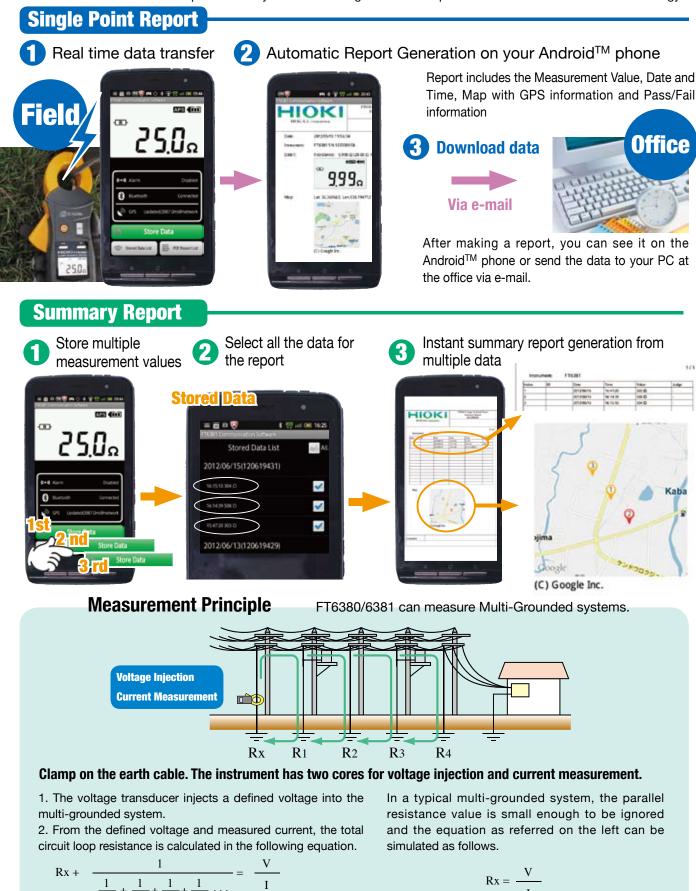
Clamp at the narrowest point!

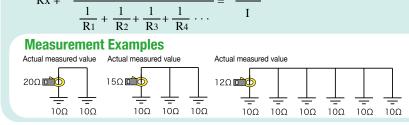
Now you can easily clamp the earth cable on the pole without digging. The dramatically slim 0.79 inch (20mm) jaws let you finish your job easily and efficiently.



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.

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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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