

Electrical Measuring Instruments

test and
measurement
solutions for R&D,
manufacturing,
utilities and
maintenance



ISO 9001
JMI-0216



ISO 14001
JQA-E-90091



www.hioki.com

HIOKI company overview, new products, environmental considerations and other information are available on our website.

New from HIOKI

PW3198



page 3

Power Quality Analyzer

Class A power quality testing over 4 voltage and 4 current channels

LR8400 Series



page 5

Memory Loggers

Up to 60 channels of voltage, temperature, resistance, humidity or pulse logging

MR8847 Series



page 7

Memory Recorders

20MS/s of simultaneous sampling over 16 fully isolated channels

MR8880-20



page 6

Memory Recorder

CAT III 600V safety lets you directly measure 480V power lines over 4 isolated channels

MR8875



page 6

Memory Recorder

Ideal for onboard vehicle testing up to 16 isolated channels

IM3570



page 8

Impedance Analyzer

High-speed LCR and DCR testing and sweep measurements from 4Hz to 5MHz

ST5540/5541



page 10

Leak Current Testers

IEC 60601-1:2005 3e-compliant testers for medical- and general-use devices

IM3523/IM3533



page 8

LCR Testers

High-speed LCR testing up to 200kHz in 3 different configurations

BT3562/3563



page 10

Battery Testers

6DCV to 60DCV or 300DCV battery testing with 4ms test time

FT6380 Series



page 16

Clamp On Earth Tester

Lightweight, slim jaw ground clamp for multiple grounding use

FT3405/3406



page 14

Tachometers

Non-contact and contact rotation, cycle and count testing with optional output

FT3700 Series



page 14

Infrared Thermometer

2-beam laser marker, 2 field diameters, MAX/MIN/AVG/MAX-MIN

3197

Power Quality Analyzer

4MB of internal memory

USB interface for data download

Large, brilliant LCD screen lets you view event list and waveforms in a single window

Multilingual display

Select from four languages, including Japanese and English.

- ▶ 1P2W to 3P4W
- ▶ Monitor inrush current, voltage swell, voltage dips, transient over-voltage, interruptions
- ▶ Measure and record power and power factor, active/reactive energy, demand, load fluctuation (with graph display), voltage and current
- ▶ PC software bundled
- ▶ Measure kWh



PW3198

Power Quality Analyzer

- ▶ 1P2W to 3P4W
- ▶ 50/60/400Hz measurement
- ▶ GPS clock synchronization (optional)
- ▶ Power factor, sags, swells, flicker, transients
- ▶ Harmonics to the 50th order
- ▶ Accurate high speed transient capture at 2MHz sampling
- ▶ Detection and waveform display
- ▶ Four current and four voltage channels
- ▶ Advanced PC software
- ▶ High harmonic

LAN and USB2.0 interfaces

Store data in 2GB SD Card



3169-20/-21

True RMS Power Meter

Multilingual display

RS-232C interface

PC Card slot



Record from a minimum of 100 msec up to 60 minute intervals

- ▶ 3P4W from 0.5A up to 1000A, and 75W to 9MW
- ▶ Power factor, integrated power, harmonics, demand
- ▶ Active power, reactive power, apparent power, frequency
- ▶ Optional advanced PC software

Model 3169-21:

- ▶ With D/A output

3390 Power Analyzer

LAN, USB,
D/A output,
RS-232C

Convenient
handle perfect
for the field



Data updates every 50ms

9" LCD displays 32
parameters at the same time

- ▶ 1P2W to 3P4W
- ▶ ±0.16% accuracy
- ▶ 4 voltage and 4 current channels all isolated
- ▶ V, A, waveforms, active/reactive/apparent power, PF, phase angle, frequency, current & power integration, efficiency, loss, V & A ripple factor
- ▶ FFT and harmonics
- ▶ Motor testing options offers turnkey solution for measuring torque, rotation, frequency and slip

3334 AC/DC Power HiTESTER



Compatible
with the
SPECpower®
benchmark

- ▶ Measure power consumption with True RMS
- ▶ 1P2W
- ▶ ±0.2% accuracy
- ▶ 15V to 300V AC/DC, 100mA to 30A AC/DC range
- ▶ 1.5W to 9kW
- ▶ Waveform and D/A output

RS-232C and GP-IB
(3333-01 and 3334-01)

3333 Power HiTESTER



- ▶ Cost-effective solution for production and inspection lines
- ▶ 1P2W
- ▶ ±0.2% accuracy
- ▶ 200V, 50mA to 20A AC range
- ▶ 10.000W to 4.000 kW
- ▶ Printout with RS-232C

3332 Power HiTESTER



Data updates 5
times /second

- ▶ Measure the standby power consumption of home equipment
- ▶ 1P2W
- ▶ 0.1 μA resolution
- ▶ 15V to 600V, 1mA to 50A AC range
- ▶ 15.000mW to 30.000kW
- ▶ D/A output

LR8431-20

Memory HiLOGGER

10 isolated channels +
4 pulse inputs



3.5MW of
internal
memory

Compact
and sharp
4.3" QVGA-
TFT wide
LCD



Large-capacity
2GB CF cards
hold more than
327 days of data
taken across all 10
channels or save
directly to USB
memory stick



USB data storage and PC
connectivity make data
management a snap

- › 10ms to 1 hour interval sampling over all 10 channels
- › Directly log up to 60V DC
- › Voltage, temperature (thermocouple or Pt sensors), pulse, rotation
- › Power with AC adapter, battery pack or 12V battery
- › Bundled Logger Utility data collection software

LR8400 Series

Memory HiLOGGERS

Mix-and match 1 or 2
more input modules for
up to 60 simultaneous
channels

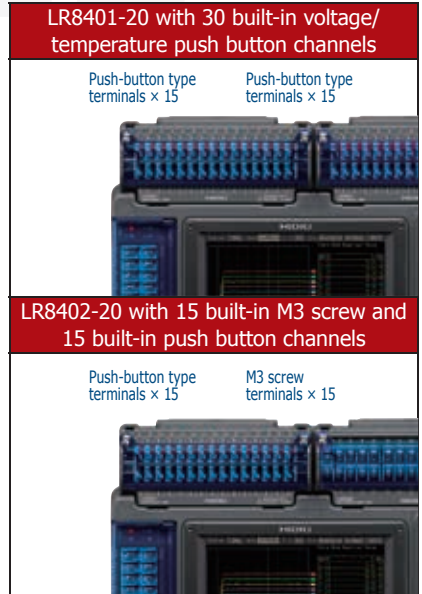
5.7" bright LCD

Log for over
500 days at
10s intervals
over 30
channels

LR8400-20 with
30 built-in M3 screw
channels

High withstand voltage
characteristics strong
enough for battery testing

- › 10ms high-speed sampling
- › Voltage, temperature (thermocouple or Pt sensors), resistance, humidity, pulse, rotation, logic
- › Enhanced noise suppression
- › Swap out USB memory or CF card while measuring
- › 16MB of internal memory
- › Bundled Logger Utility data collection software



8870-20 Memory HiCORDER



Compact and sharp 4.3" QVGA-TFT wide LCD

Ergonomic and light, palm-sized but powerful

- ▶ 2 analog and 4 logic channels built in
- ▶ Measure up to 400V DC
- ▶ High-speed 1MS/s recording
- ▶ Setup Wizard easily helps you navigate through the settings
- ▶ Download data to PC via USB

4MW of internal memory

Store data on 2GB CF card

MR8880-20 Memory HiCORDER



Optional easy-load printer

4 analog + 8 logic channels built in

5.7" TFT color LCD for super clarity

Swap 2GB CF Card or USB memory stick while measuring

- ▶ CATIII 600V safe
- ▶ Maximum 1MS/s high-speed or real-time recording
- ▶ 4MW internal memory
- ▶ Start measuring immediately with PRESET configurations
- ▶ Advanced trigger functions
- ▶ Bundled viewer software
- ▶ Download data to PC via USB

MR8875 Memory HiCORDER



8.4" high definition touch screen that rotates according to cabling needs

Only 5 buttons to minimize dirt buildup

Save data in real-time to SD Card, transfer to PC via USB or LAN

Up to 16 analog and 64 logic channels with mix-and-match plug-in input modules

- ▶ Ideal solution for in-vehicle and road tests
- ▶ 16-bit A/D resolution
- ▶ 32MW internal memory
- ▶ 500 kS sampling across all 16 channels simultaneously
- ▶ Wide -10 °C to 50 °C operating temperature range
- ▶ Meets industrial vibration standards
- ▶ Supports CANbus signals
- ▶ Web server and FTP via LAN

MR8847 Series

Memory HiCORDERS

Up to 512 MW of internal memory

Built-in easy-load printer

Tough construction and corner protectors ideal for field use

Accommodates up to 8 input modules = 16 isolated analog channels

16 built-in logic channels - swap with analog input modules for up to 48 more

LAN, CF Card and USB interfaces

- ▶ 20MS/s sampling
- ▶ High-speed, real-time or X-Y recording
- ▶ 5mV to 20V/div over 20 divisions
- ▶ 1/1600 of range resolution with 8968 High Resolution Unit
- ▶ 80GB hard disk option
- ▶ Bundled viewer software

8860-50 & 8861-50

Memory HiCORDERS

Up to 2GW internal memory

Optional built-in printers with two paper widths

Accommodates up to 8 input modules = up to 32 isolated analog channels or 128 logic channels

- ▶ 20MS/s sampling
- ▶ Measure up to 1000V DC with High Voltage Module
- ▶ High-speed, real-time, FFT, high-speed+real-time, real-time save
- ▶ Mix-and-match from 13 different input modules
- ▶ 16-bit A/D resolution with 8957 High Resolution Unit
- ▶ 5mV to 20V/div over 20 divisions
- ▶ 60GB hard disk option
- ▶ Web server and FTP via LAN
- ▶ Bundled viewer software

LAN, USB, CF Card x 2, GP-IB, SVGA interfaces

IM3570

Impedance Analyzer

High-speed and double parameter testing ideal for production lines

5.7" Color LCD with energy-saving shut-off feature

USB, GP-IB, External I/O, RS-232C

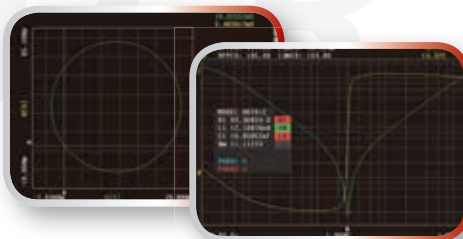
0.5msec test time improves efficiency



- ▶ LCR, sweep and continuous modes
- ▶ 4Hz to 5MHz, 5mV to 5V
- ▶ $\pm 0.08\%$ accuracy
- ▶ DC bias measurement, comparator, panel loading/saving, memory, DCR mode
- ▶ Test piezoelectric elements (sweep and LCR), functional polymer capacitors (C-D and low ESR), and coils and transformers (DCR and L-Q)

IM9000

Equivalent Circuit Analysis Software



Software application for the IM3570 to simply the detailed analysis of electronic components

IM3533/IM3533-01

LCR Meter

- ▶ 1mHz to 200kHz
- ▶ $\pm 0.08\%$ accuracy
- ▶ C-D + ESR and L + DCR with temperature compensation
- ▶ 2ms high-speed testing
- ▶ 5mV to 5V/2.5V and CV signal
- ▶ Comparator, BIN measurement
- ▶ 4-terminal contact check
- ▶ 5 to 5V DC Bias measurement
- IM3533-01 only:**
- ▶ Even more precise $\pm 0.05\%$ accuracy
- ▶ Frequency sweep

Optional LAN, GP-IB and RS-232C interfaces



Dedicated modes for transformer and coil measurements

Touch-screen color display

IM3523

LCR Meter

Built-in USB data transfer and External I/O



Intuitive buttons and sharp LCD

Optional LAN, GP-IB and RS-232C

- ▶ 40Hz to 200kHz
- ▶ C-D + ESR and L + DCR
- ▶ 2ms high-speed testing
- ▶ $\pm 0.08\%$ accuracy
- ▶ 5mV to 5V and CV signal
- ▶ Comparator, BIN measurement
- ▶ 4-terminal contact check

TM6101

LED Optical Meter

Ideal for production lines of white LED and LED lighting devices

USB2.0 & Digital I/O

High-precision filter system



- ▶ Rapid 5ms testing
- ▶ Chromaticity stability ± 0.0001
- ▶ 100 lx to 100,000 lx measurement range
- ▶ $\pm 5\%$ illuminance accuracy
- ▶ 11.3 mm ± 0.1 mm diameter optical detector
- ▶ Reference value correction and auto-range functions

(Not CE-marked)

LCR and C HiTESTERS

3535

LCR
100kHz
to
120MHz

Detachable head amplifier



$\pm 0.5\%$ accuracy

3532-50

LCR
42Hz
to
5MHz

Intuitive touch screen



$\pm 0.08\%$ accuracy

- ▶ Measure 14 component parameters (7 with the 3511-50)
- ▶ 5ms to 6ms test time
- ▶ RS-232C, GP-IB, and External I/O interfaces (some optional)

- ▶ BIN measurement
- ▶ Up to 99999 digit display
- ▶ Built-in comparator

3504 Series

Choose from 3 models according to system interface



C&D
120Hz or
1kHz

$\pm 0.09\%$ accuracy

- ▶ Measure high capacitance MLCC
- ▶ BIN function
- ▶ Measuring time: 2msec
- ▶ Contact check function (3504-60)
- ▶ RS-232C, GP-IB on certain models

3540

m Ω HiTESTER

Built-in temperature compensation function

Select from 4 models according to your system interface needs



- ▶ Sample 16 times per second
- ▶ Comparator function memorizes up to 7 tables
- ▶ $\pm 0.1\%$ accuracy over 30 m Ω to 30 k Ω range
- ▶ 4-terminal method eliminates the effects of leads and contact resistance

3541

Resistance HiTESTER

EXT. I/O, RS-232C & GP-IB

Also measure temperature



- ▶ Fastest sampling rate of 0.6ms \pm 0.3ms
- ▶ Measure from 0.1 $\mu\Omega$ to 110.000 M Ω
- ▶ $\pm 0.007\%$ accuracy

BT3562/3563

Battery HiTESTERS



USB, External I/O, RS-232C, GP-IB (option)

Two models: $\pm 300V$ DC and $\pm 60V$ DC input

- ▶ Ideal for high-voltage battery pack production lines
- ▶ 4ms sampling time
- ▶ $\pm 0.01\%$ rdg. ± 3 dgt. accuracy
- ▶ Built-in comparator

3561

Battery HiTESTER



EXT. I/O, RS-232C & GP-IB (3561-01)

20V DC range

- ▶ Fastest sampling rate of 4ms
- ▶ 300m Ω to 3 Ω range
- ▶ $\pm 0.5\%$ accuracy

3174

AC AUTOMATIC INSULATION/ WITHSTANDING HiTESTER



0.1 to 99.9s delay/ramp timer

Contact check function

Full remote control available with separate software

- ▶ Insulation resistance test up to 2000M Ω
- ▶ Withstanding voltage test up to 5kV AC
- ▶ Save up to 8 test settings for each mode

3153

AUTOMATIC INSULATION/ WITHSTANDING HiTESTER



Electrical discharge function

- ▶ Insulation resistance test up to 9999M Ω
- ▶ Withstanding voltage test up to 5kV AC/DC
- ▶ Save up to 10 test settings for each mode

ST5540/5541

Leak Current HiTESTERS



Patient Leakage Current I, II, III (ST5540)

Store 100 sets of data

Two models to choose from: **ST5540** for both medical and general use, and **ST5541** for basic testing

- ▶ IEC 60601-1: (2005) 3rd Edition-compliant
- ▶ DC/AC/AC+DC modes from 50 μA to 50 mA; AC Peak from 500 μA to 75 mA
- ▶ Uninterrupted polarity switching function dramatically reduces cycle time

SM-8220

Ultra Megohmmeter



Built-in timer, remote starter, comparator & HV-EN functions

Digital and analog display

- ▶ 10 to 1000 V DC measurement voltage
- ▶ 5×10^4 to $2 \times 10^{10} M\Omega$ range
- ▶ $\pm 3\%$ accuracy
- ▶ Max. 2mA output current

(Not CE-marked)

LR5000 Series

Data Loggers

Easy-to-read dual display

Rear kickstand

Splash-proof construction

LR5001: 2ch Temperature and humidity

Backup function preserves important data

Record up to 60,000 data points per channel

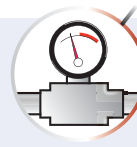


- ▶ 7 models to choose from
- ▶ Long 2-year battery life
- ▶ -4°F to 158°F operating temperature range
- ▶ Transfer data to Communication Adapter even during recording
- ▶ Bundled Utility software for quick and easy data analysis



LR5031: 2ch Instrumentation 4-20mA DC

Record pressure sensor output and monitor fluctuations in air or oil pressure



LR5011: 1 channel temperature

Visually monitor temperature changes in the warehouse



LR5041/LR5042/LR5043: 3 models w/1ch 50mV/5V/50V DC

Record pyranometer output to evaluate solar panel insulation



Record and monitor leakage trends



LR5051: 2ch AC Current with separate clamp sensors 500.0 mA to 1000A

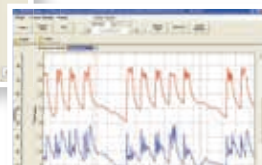
Transfer Data to PC with Simple Adapter or More Advanced Data Collector



LR5092-20



LR5091



3280-10

AC

1

Advanced core technology eliminates magnetization-induced heat and noise, even in heavy-current



2

Only 100g light (3288-20: 150g)

3280-20

AC True RMS

3

No metal exposure to ensure safety



3288-20

AC/DC True RMS

4

Ultra-thin clamp with independent-opening double-lever design



- ▶ 42 to 1000 AC A
- ▶ 100 to 1000 AC A and DC A (3288-20)
- ▶ 4.2 to 600 AC V
- ▶ 420m to 600 DC V
- ▶ Continuity and Resistance

3282

AC True RMS

CATIV 600V/
CATIII 1000V Safe

Tough and durable body built for long use



- ▶ 30 to 1000 AC A
- ▶ 300 to 600 AC V
- ▶ Resistance
- ▶ Frequency through jaw
- ▶ Continuity

3285

AC/DC True RMS

Inrush current peak hold

AC, DC, AC+DC

- ▶ 200 to 2000 AC A/200 to 2000 DC
- ▶ 30 to 600 AC V
- ▶ 30 to 600 DC V
- ▶ Frequency through jaw
- ▶ Max/Min/Avg/RMS modes



3286-20

AC True RMS + Power

Check for harmonics & power factor

High performance for single-phase to balanced 3-phase circuits



RS-232C Output

- ▶ 20 to 1000 AC A
- ▶ 150 to 600 AC V
- ▶ 3kW to 1200kW
- ▶ Frequency
- ▶ Reactivity, phase angle

3285-20

AC/DC True RMS

Model 3285 with resistance and continuity check



- ▶ 1000 Ω/ 10.00 kΩ resistance
- ▶ Battery power only

Innovative sliding cover system lets you store test leads while connected

IR4000 series

Single-range Analog



- ✓ Precise taut-band movement gives quick readings
- ✓ Constant battery check
- ✓ Luminous scale
- ✓ Optional lighted remote control test lead makes testing even faster
- ✓ Check for live circuits
- ✓ Bright red light warns of live voltage

3490

Multi-range Analog



IR4056-20

1kV Digital



- ✓ Check for live circuits
 - ✓ Digital reading at a glance
 - ✓ Bright red light warns of live voltage
- IR4057-20:**
- ✓ 0.3s comparator response rate
 - ✓ Digital bar graph

IR4057-20

1kV Digital



		Analog Insulation Resistance				Digital Multi-range Insulation Resistance		
		Single range			Multi-range			
		IR4016-20	IR4017-20	IR4018-20	3490	3455	IR4056-20	IR4057-20
Insulation Testing	50V						100 MΩ	100 MΩ
	125V						250 MΩ	250 MΩ
	250V				100 MΩ	250GΩ	500MΩ	500MΩ
	500V	100 MΩ	1 GΩ		100 MΩ	500GΩ	2000MΩ	2000MΩ
	1000V			2 GΩ	4 GΩ	1.00TΩ	4000MΩ	4000MΩ
	2500V					2.50TΩ		
	5000V					5.00TΩ		
Rated Current/Short Circuit Current		1mA (Tolerance: 1 to 1.2 times of the rating value)				2mA	1.2mA	
AC V Testing		0 to 600 V (50/60 Hz)				50 to 750V	420V/600V	
DCV Testing						±50V to 1.00kV	4.2V to 600V	
Best Accuracy		±5% of maximum scale value				±5% rdg. ±5dgt.	±2.3% rdg. ±8 dgt. (ACV)	

3455

5kV Insulation Tester

Safety shutter prevents high voltage contact



Step voltage testing, temperature compensation, temperature measurement, and leakage current

3151

Earth Testing



2-pole or 3-pole method for testing earth resistance

Selectable frequency range

- ▶ 10 to 1000Ω
- ▶ 2-wire measurement method on 100Ω & 1000Ω ranges
- ▶ 15m AC A measurement current

Non-Metal Contact Voltage Testing and Detection



3120 AC Voltage Detector

Bright green light indicates sufficient power supply, Bright red light and clear buzzer warns of live voltage



- ▶ Sensitivity level catered to 120V installations
- ▶ 70V to 600V AC
- ▶ Non-metallic contact

CATIV 600V/
CATIII 1000V Safe

3129-10 Phase Detector

Bright Red LED and clear buzzer



Absolutely NO metal exposure ensures safety at the worksite

- ▶ 70V to 1000V AC
- ▶ Auto power off saves battery life

Extra-wide clips to clamp up to Ø 40mm thick conductors

3423 Lux Testing

20 to 200000lx range, 199,900 lx max. scale



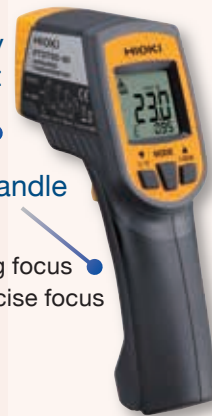
Detachable sensor head using optional cord

Ultra-sensitive sensor offers ±4%rdg. ±1dgt. accuracy

Analog output

New FT3700 Series Infrared Temperature

2-point laser marker clearly defines target



Non-contact infrared sensor

Ergonomic handle

- ▶ FT3700-20: 12:1 long focus
- ▶ FT3701-20: 30:1 precise focus

-76°F to 1400°F with 0.1°F resolution (FT3701-20)

3258 Safety HiTESTER

Non-metallic resin test probes prevents electric shock

- ▶ 30V to 600V AC True RMS
- ▶ Crystal clear LCD



HIKI's proprietary technology lets you measure right through line insulation

FT3405/3406 Tacho Testing

Long non-contact distance of 19.7"



Signal output, (FT3406 only) analog output and pulse output

- ▶ Best sampling: 62.5 ms
- ▶ Best accuracy: ±1dgt.

Dust-proof and drop-proof (IP 50)

FT3470 Series Magnetic Field Testing

Choose from large or small sensor



Time domain evaluation complies with IEC62233 magnetic flux standards

Bundled PC application

- ▶ ICNIRP 2010-compliant
- ▶ Store 99 sets of data
- ▶ Wide 10Hz to 400kHz frequency band

3554 Battery HiTESTER

Wide 60V range

Store up to 4800 sets of test data



Comparator function, auto data hold and auto data storage

Extra-strong test probes

- ▶ Ideal for testing UPS batteries
- ▶ 3mΩ to 3Ω over 4 resistance ranges
- ▶ 1 μΩ best resolution
- ▶ 6 or 60 DC V voltage testing with 1mV resolution
- ▶ -10 to 60°C temperature testing with 0.1°C resolution
- ▶ 1 time/sec sampling
- ▶ Store 200 sets of comparator values
- ▶ Download test results and upload comparator tables via USB interface and free software
- ▶ Also available: Model 3555 for compact batteries covering 300mΩ to 30Ω and 3 or 30 DCV testing

SS7012 DC Signal Source

Generate and measure signals at the same time



4-20mA and loop testing

Sample 1.67 times per second

- ▶ Supports 8 types of thermocouples
- ▶ Max. 25mA DC sink
- ▶ CV, CC, thermoelectric power & resistance generation

3246-60 Pencil HiTESTER

600V circuit protection - no fuse required

Ultra-bright diode light lets you find hard-to-reach spots in dark locations



Test probe fits neatly in the back

- ▶ 4.2V to 600V AC
- ▶ 420mV to 600V DC
- ▶ Resistance
- ▶ 150 hours of continuous use on a single battery

3256-50 DMM

- ▶ 420mV to 1000V AC and DC
- ▶ 42μA to 10A AC and DC
- ▶ Resistance and Frequency
- ▶ Continuity and Diode Check

High-speed response and bar graph display



Terminal shutter interlock mechanism

3245-60 Solar HiTESTER

Hybrid power system with solar-charged main battery and backup power

50,000lx footcandle testing



- ▶ 420mV to 600V AC and DC
- ▶ 420Ω to 42MΩ
- ▶ "1000" digits display to approx. 50,000 lx
- ▶ 8 hours of continuous use on solar power alone

FT6380 Series Clamp On Earth Tester

New



Slim jaw for the narrowest spaces also minimizes dirt or soil

Open jaw with one hand



For multi-grounded systems

- ▶ 0.20Ω to 1600Ω, ±1.5% rdg. best accuracy
- ▶ 20mA to 60A current testing
- ▶ Measurements update every 1/2 second
- ▶ IP40 dust and moisture protection
- ▶ 35 hours of continuous use

Advanced engineering and circuitry means no zero adjustment is required

Bluetooth® connectivity for wireless data transfer to Android™ phones (FT6381)



Tough carrying case included



All of the products appearing in this catalog are CE marked unless otherwise indicated. HIOKI products labeled with the CE marking are designed for fulfillment of these over-voltage category requirements. In order to ensure safe use of this instrument, please use a device showing the CAT marking that is appropriate for the place of use.



In some cases, power lines may carry voltage spikes of several times the normal supply voltage. For reasons of safety, ordinary testers should not be used to measure power lines carrying more than 250V. When measuring such power lines, always use a tester with built-in overcurrent protection to guard against short circuits, such as Model 3008 and a device showing the CAT III marking.

Note: The term "power line" refers to the entire electrical circuit providing power to factories, buildings and industrial machines. However, it does not include electrical circuits in ordinary dwellings (lines protected by fuses or circuit breakers).



1. To avoid short circuits and electric shock accidents when using a clamp-on sensor, use only with power lines carrying voltages within the rating limit of the sensor.
2. To avoid short circuits and electric shock accidents when the clamp-on sensor is open, do not use on bare conductors.

Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.

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