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**Clamp Testers**

**Analogue/Digital**

**Parameters Pa3001**

**AC, Analogue Clamp Tester**

- 34 mm max. conductor
  - 6, 15, 60, 150, 300 Amps AC
  - 150, 300, 750 Volts AC maximum
  - 0-75 Volts DC maximum
  - 2 k, 200 kΩ maximum
  - 3% typical accuracy
  - Cat. II 600 V safety standard

**Parameters Pa61**

**AC, Digital Clamp Tester**

- 30 mm max. conductor, Auto power-off, auto range, data hold frequency
  - 40, 400 Amps AC maximum
  - 400, 600 Volts AC/DC maximum
  - 0-400 Ω resistance
  - 0-40 MHz frequency
  - Continuity beeper
  - 3 ½ digit display
  - 2% typical accuracy
  - Cat. II 600 V safety standard

**Parameters Pa260B**

**AC, Digital Clamp Tester**

- 50 mm max. conductor
  - 200, 1000 Amps AC maximum
  - 200, 750 Volts AC maximum
  - 200 mV, 2, 20, 200, 1000 Volts DC maximum
  - 200 Q, 2 k, 20 k, 200 k, 2 MΩ resistance
  - Continuity beeper
  - 3 ½ digit display
  - 2 % typical accuracy

**Parameters Pa260b**

**AC, Digital Clamp Tester**

- 200, 600 Amps AC maximum
- 0-600 Volts AC maximum
- 0-2000 Ω resistance
- Continuity beeper
- 4200 count display
- 3 % typical accuracy
- Cat. III 600 V safety standard

**Parameters Pa33ii**

**AC, Digital Clamp Tester**

- 200, 600 Amps AC maximum
- 0-600 Volts AC/DC maximum
- 0-2000 Ω resistance
- Continuity beeper
- 3 ½ digit display
- 2.5 % typical accuracy
- Cat. III 600 V/ Cat. II 1000 V safety standard

**Parameters Pa33rii**

**AC, Digital Clamp Tester**

- 0-200 Amps AC maximum
- 0-600 Volts AC/DC maximum
- 0-2000 Ω resistance
- Continuity beeper
- 2000 count display
- 3 % typical accuracy
- Cat. III 600 V safety standard

**Parameters Pa33rii**

**AC, Digital Clamp Tester**

- 30, 300, 1000 Amps AC maximum
- 300, 600 Volts AC maximum
- 1 k, 10 kΩ resistance
- 1 kΩ, continuity beeper sounds
- 100, 1000 Hz frequency
- 3000 count display
- 1 % typical accuracy
- Cat. IV 600 V safety standard
Clamp Testers
Analogue/Digital

**APPA A9**

AC, Digital Clamp Tester
27 mm conductor, Display hold, auto-selection AC/DC Volts and Current
- 0.3-400 Amps AC maximum
- 1.0-600 Volts AC maximum
- 1.5-600 Volts DC maximum
- 0-2000 Ω resistance
- Continuity beeper
- 6000 count display
- 1.8 % typical accuracy
- Cat. III 600 V safety standard

**APPA 30**

AC and DC Digital Clamp Tester
22 mm conductor, Maximum hold Display hold, auto-ranging
- 40, 300 Amps AC/DC maximum
- 400 mV to 600 Volts AC/DC maximum
- 400 Ω to 4kΩ resistance
- Continuity beeper
- 4000 count display
- 3 % typical accuracy
- Cat. II 600 V safety standard

**APPA 17**

Pen-type multimeter
Suitable for AC current with optional Appa 15 current transducer (see page 14)
Digital and bargraph display, display hold, auto-off
- 320 mV to 600 Volts DC maximum
- 3.2 V to 600 Volts AC maximum
- 320 Ω to 30 MΩ resistance
- Continuity beeper
- 3200 count display
- 1.7 % typical accuracy
- Cat II 600 V safety standard

**HIOKI 3291**

TRMS AC Digital Clamp Tester
30 mm maximum conductor diameter Slim body, reversible ("Flip Design") display maximum hold
- 60, 600, 1000 Amps AC max. ranges
- 3000 Count Display
- 2% typical accuracy
- Cat IV 300 V safety standard

**PROVA AFLEX 3002**

TRMS Flexible AC Clamp Tester
170 mm Maximum conductor diameter, Digital display, Display hold, maximum and minimum, and peak
- 300, 999.9, 3000 Amps AC max. ranges
- 4.0 - 600 Volts AC max.
- 45 - 65 Hz frequency measurement range
- 1% typical accuracy
- Cat III 600 V safety standard

**APPA 36ii**

AC and DC Digital Clamp Tester
22 mm conductor Display and maximum hold, auto-ranging
- 40, 300 Amps AC/DC maximum
- 400 mV to 600 Volts AC/DC maximum
- 400 Ω/40 MΩ resistance
- Continuity beeper
- 4000 count display
- 3 % typical accuracy
- Cat. II 600 V safety standard

**HIOKI 3285**

TRMS AC and DC, Digital Clamp Tester
55 mm conductor Bar graph/digital display; display and peak hold, frequency
- 20, 200, 2000 Amps AC/DC maximum
- 30, 300, 600 Volts AC/DC maximum
- 0-400 Ω resistance
- 10, 100, 1000 Hz frequency range
- 2000 count display
- 1.3 % typical accuracy
- Cat. III 600 V safety standard

**APPA 36Rii**

TRMS AC and DC, Digital Clamp Tester
35 mm conductor Display and maximum hold, auto-ranging
- 400, 600 Amps AC/DC
- 0.4-600 Volts AC/DC maximum
- 4-400 Ω/40 MΩ resistance
- Continuity beeper
- 4000 count display
- 1.9 % typical accuracy
- Cat. III 600 V safety standard

Customer Service Centre Freecall 1800 623 350 Fax Stream 1800 067 263
**HIOKI 3287**

*TRMS AC and DC, Digital Clamp Tester*
- 35 mm conductor Digital display; display hold
  - 10, 100 Amps AC/DC maximum
  - 420 mV DC; 4.2, 42, 420, 600 Volts AC/DC maximum
  - 420 Ω, 4.2 k, 42 k, 420 k, 4.2 M, 42M Ω resistance range
  - Continuity beeper
  - 4199 count display
  - 1.5 % typical accuracy
  - Cat. III 600 V AC/DC Amps; Cat II 600 V AC/DC Volts safety standard

**APP A16R**

*TRMS AC and DC, Digital Clamp Tester*
- 51 mm conductor Bar graph/digital display; display and peak hold, frequency counter
  - 400, 1000 Amps AC/DC maximum
  - 0-400/750 Volts AC maximum
  - 0-400/1000 Volts DC maximum
  - 0-400 Ω resistance
  - 0-4 kHz/10 kHz frequency range
  - Continuity beeper
  - 4000 count display
  - 1.9 % typical accuracy
  - Cat. IV 600 V/Cat III 1000 V safety standard

**HIOKI 3288**

*AC and DC, Digital Clamp Tester*
- 35 mm conductor Digital display
  - 100, 1000 Amps AC/DC maximum
  - 420 mV DC; 4.2, 42, 420, 600 Volts AC/DC maximum
  - 420 Ω; 4.2 k, 42 k, 420 k, 4.2 M, 42M Ω resistance range
  - Continuity beeper
  - 4199 count display
  - 1.5 % typical accuracy
  - Cat. III 600 V AC/DC Amps; Cat II 600 V AC/DC Volts safety standard

**APP A16HR**

*TRMS AC and DC, Digital Clamp Tester*
- 51 mm conductor, low residual magnetism clamp, Bar graph/digital display; display and peak hold, frequency counter
  - 400, 1000 Amps AC/DC maximum
  - 0-400/750 Volts AC maximum
  - 0-400/1000 Volts DC maximum
  - 0-400 Ω resistance
  - 0-4 kHz/10 kHz frequency range
  - Continuity beeper
  - 4000 count display
  - 1.9 % typical accuracy
  - Cat. IV 600 V/Cat III 1000 V safety standard

**HIOKI 3030-10**

*Analog Multimeter*
- Drop-proof (1 metre)
  - 0.3 V DC, 3 V DC; 12, 30, 120, 300, 600 Volts AC/DC maximum
  - 60 µA; 30/300 mA DC
  - 3 k, 30 k, 300 k, 3 MQ resistance range
  - -50ºC to +150ºC temperature range (optional probe)
  - 20 kΩ/Volt sensitivity
  - 2.5 % typical accuracy
  - Cat. III 600 V safety standard

**APP A10 PLUS**

*Appa A10 PLUS AC Digital Clamp Tester*
- 32 mm Maximum conductor diameter, Backlit display, Display hold, Auto Power-off
  - 400, 600 Amps AC max. ranges; 4000 µA DC max
  - 4 - 750 Volts AC max., 4 - 1000 Volts DC max
  - 0 - 400Ω/40 MQ resistance
  - 4 nF - 4000 µF capacitance range
  - -40ºC - +400ºC temperature range
  - Continuity and diode test
  - 4000 count display
  - 1.5% typical accuracy
  - Cat III 600 V safety standard

**PARAMETERS PA 151**

*Digital Multimeter*
- Non-contact AC Volts indicator.
  - Maximum hold, data hold
    - 0-200 mV; 2, 20, 600 Volts AC/DC maximum
    - 200 µA, 20, 200 mA; 10 Amps AC/DC
    - 0-200 Ω; 20 k, 200 k, 20 MQ resistance range
    - Continuity test
    - Diode test
    - 1999 count display
    - 2 % typical accuracy
    - Cat. III 600 V safety standard

**PARAMETERS PA 8020**

*Ruggedised Digital Multimeter*
- Continuity and diode test
  - 400 mV; 4, 40, 400, 1000 Volts DC maximum
  - 400 mV; 4, 40, 400, 750 Volts AC maximum
  - 40, 400 µA; 20 Amps AC/DC
  - 400 Ω; 4 k, 40 k, 400 k, 4 M, 40M Ω resistance range
  - 4 nF, 40 nF, 400 nF, 4, 40 µF capacitance range
  - Continuity test
  - Diode test
  - Hfe transistor test (0-1000)
  - 3 ½ digit display
  - 2 % typical accuracy
  - Cat. II 600 V safety standard

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**Clamp Testers**
**AC/DC/TRMS, Digital**
**Multimeters**
**Analogue/Digital**
**Digital Multimeters**

**HIoki 3244**
**Pocket Multimeter**
Auto-power save
- 420 mV, 4.2, 42, 420, 500 Volts DC maximum
- 4.2, 42, 420, 450 Volts AC maximum
- 420 Ω, 4.2 k, 42 k, 420 k, 4.2 M, 42 MΩ resistance range
- Continuity test
- 4199 count display
- 2.3 % typical accuracy
- Cat. II 500 V safety standard

**HIoki 3803**
**Digital Multimeter**
Bar graph and digital display, RS 232 optional software
- 400 mV; 4, 40, 400, 1000 Volts AC/DC maximum
- 400 µA; 4, 40, 400 mA; 10 Amps AC/DC
- 400 Ω; 4 k, 40, 400 k, 4 M, 40 MΩ resistance range
- Continuity test
- 2 % typical accuracy
- Cat. III 600 V safety standard

**Appa 62t**
**Digital Multimeter**
Auto/manual, Data hold, 2000 count display
Minimum/Maximum function
- Non-contact Voltage Indication
- 0 - 200 mV/1000 Volts DC max., 0 - 200 mV/750 Volts AC max
- 2/10 Amps AC/DC
- 0-200 Ω/20 MΩ resistance range
- 2 nF - 20,000 µF capacitance range
- 2 kHz - 20 MHz frequency range
- -20°C - +80°C temperature range
- 1.5% typical accuracy
- Cat. III 600 V safety standard

**Appa 77**
**Digital Multimeter**
Bar graph and digital display, Auto/manual, Data hold, minimum and maximum functions, fast response and 4000 count display
- 0 - 400 mV/1000 Volts DC max., 0 - 400 mV/750 Volts AC max
- 0 - 400 µA/4000 µA DC
- 0 - 400Ω/40 MΩ resistance range
- 4 nF - 20,000 µF capacitance range
- 4 kHz/40 MHz frequency range
- Continuity and diode test
- 0.9 % typical accuracy
- Cat. IV 600 V / Cat III 1000 V safety standard

**Appa 97II**
**Digital Multimeter**
Bar graph and digital display, multifunction
- 0-300 mV/1000 Volts DC maximum
- 0-3 V/750 Volts AC maximum
- 30 mA/10 Amps AC/DC
- 0-300Ω/30 MΩ resistance range
- Continuity test
- Diode test
- 3 kHz/30 MHz frequency
- 3400 count display
- 1.3 % typical accuracy
- Cat. III 600 V/Cat II 1000 V safety standard

**Appa 79**
**TRMS Digital Multimeter**
Bar graph and digital display, Auto/manual, Data hold, minimum and maximum functions, fast response, Optical RS 232 interface, 4000 count display
- 0 - 400 mV/1000 Volts DC max., 0 - 400 mV/750 Volts AC max
- 0 - 400 µA/10 Amps AC/DC
- 4 nF - 40,000 µF capacitance range
- 4 kHz/40 MHz frequency range
- Continuity and diode test
- 0.9 % typical accuracy
- Cat. IV 600 V / Cat III 1000 V safety standard

**Appa 3246**
**Pencil-type Digital Multimeter**
Inbuilt pen light
- 420 mV; 4.2, 42, 420, 600 Volts DC
- 4.2, 42, 420, 600 Volts AC
- 0-420Ω; 4.2 k, 42 k, 420 k, 4.2 M, 42 MΩ resistance range
- Continuity test
- 4199 count display
- 2.3 % typical accuracy
- Cat. III 600 V safety standard

**Appa 3803**
**Digital Multimeter**
Bar graph and digital display, Auto/manual, Data hold, minimum and maximum functions, fast response, 4000 count display
- 0 - 400 mV/1000 Volts DC max., 0 - 400 mV/750 Volts AC max
- 400 µA/4000 µA DC
- 400 Ω/40 MΩ resistance range
- 4 kHz/40 MHz frequency range
- Continuity and diode test
- 0.9 % typical accuracy
- Cat. IV 600 V / Cat III 1000 V safety standard

**Customer Service Centre** Freecall 1800 623 350 Fax Stream 1800 067 263
**Multimeters**

**TRMS Digital**

**APP 98II**

**TRMS Digital Multimeter**
- Bar graph and digital display, auto-ranging, multifunction
- 0-300 mV/1000 Volts DC maximum
- 0-0.4 V/750 Volts AC maximum
- 40 mA/10 Amps AC/DC
- 0-400 Ω/40 MΩ resistance range
- 4 nF/40/400 µF capacitance range
- Continuity test
- Diode test
- 4 kHz/40 MHz frequency
- 4000 count display
- 1.3 % typical accuracy
- Cat. III 600 V/Cat II 1000 V safety standard

**APP 99II**

**TRMS Digital Multimeter**
- Bar graph and digital display, peak and data hold
- 0-400 mV/1000 Volts DC maximum
- 0-400 mV/750 Volts AC (TRMS) maximum
- 0-40 mA/10 Amps AC (TRMS)/DC
- 0-400 Ω/40 MΩ resistance range
- 4 nF/40/400 µF capacitance range
- 4 kHz/40 MHz frequency counter
- Continuity test
- Diode test
- -20ºC to +80ºC temperature
- 4000 count display
- 1.3 % typical accuracy
- Cat. III 600 V/Cat II 1000 V safety standard

**PA-71 Parameters**

**Pen-type digital multimeter, Data/range hold, Auto power off**
- 0 - 400 mV, 4, 40, 400, 600 Volts DC max.
- 4, 40, 400, 600 Volts AC max.
- 0-40Ω, 4 kΩ, 400 kΩ, 4 MΩ, 40 MΩ resistance ranges
- 10 Hz, 100 Hz, 1000 Hz/ and 10 kHz frequency range
- Continuity and diode test
- 4000 count display
- 1 % typical accuracy
- Cat IV 600 V safety standard

**NIEAF INSTRUMENTS**

**VOLT SPOTTER**

**NIEAF Instruments Volt Spotter**
- Non-contact voltage detector
  - 100 - 1000 Volts AC
  - optical and acoustic voltage indicators
  - IP 64 enclosure
  - Cat IV 600 V/Cat III 1000 V safety standard

**VOLT SAFE**

**NIEAF Instruments Volt Safe**
- Non-contact voltage detector (red LED)
  - Indication of no voltage (green LED)
  - 100 - 1000 Volts AC
  - optical and acoustic voltage indicators
  - IP 64 enclosure
  - Cat IV 600 V/Cat III 1000 V safety standard

**VOLT POINTER**

**NIEAF Instruments Volt Pointer**
- Non-contact voltage detector (red LED)
  - Indication of no voltage (green LED)
  - 100 - 1000 Volts AC
  - optical and acoustic voltage indicators
  - Bright LED torch function
  - IP 64 enclosure
  - Cat IV 600 V/Cat III 1000 V safety standard

**VOLT TESTERS AND INDICATORS**

**Voltage/Continuity Testers and Indicators**

**Parameters EazyVolt 1**

**Voltage/Continuity Tester**
- Automatic multi-function tester with LED readout
  - 6, 12, 24, 36, 50, 120, 230 V, 400 V, 690 Volts AC/DC display scales
  - Continuity test
  - Phase rotation, two-pole measurement principle
  - Cat III 1000 V safety standard
  - IP 65
  - 3 % typical accuracy

**Parameters EazyVolt 2**

**Voltage/Continuity Tester**
- Automatic multi-function tester with LCD readout
  - 6-690 Volts AC/DC bar graph display
  - Continuity test
  - Resistance range 0-2KΩ
  - Phase rotation, two-pole measurement principle
  - Back-lit display
  - 3 % typical accuracy
  - Cat III 1000 V safety standard
  - IP 65
Voltage/Continuity Testers and Indicators

**HIOKI 3120**

Non-contact Voltage Indicator
Automatic multi-function tester
- 50 to 600 Volts AC range
- Separate colour LED indication (red/green for battery and voltage)
- Audible signal
- Cat IV 600 V safety standard

**HIOKI 3446-01**

Digital Thermometer
Logging and manual recording thermometer with RS 232 interface
- Suitable for type K thermocouple sensors
- Range from -100°C to +1000°C
- Measuring rate 1.0/sec
- Clock, comparator, data back-up functions
- Optional K-type probes (to +300°C, to +800°C, to +500°C surface type)
- Resolution 0.1°C to 1.0°C
- 2 % typical accuracy

**APP 11**

Thermometer attachment for Digital Multimeters
Includes K-type thermocouple bead
- Range from -50°C to +1000°C
- Output 1 mV/°C
- Bead probe (model 508K)
- -40°C to +204°C
- 2 % typical accuracy

**APP 50PK**

Infrared digital Thermometer
Laser targeting
- LCD readout with backlight
- -20°C to +500°C (-4°F to +932°F)
- Display hold and auto power off
- 2 % typical accuracy

**APP 50AK**

Air Probe
Suitable for air and gases
- Range from -196°C to +500°C
- Not for immersion in liquids

**PARAMETERS YF-180**

Temperature/Humidity meter
Suitable for high and low temperature measurements
- 0°C to +60°C/32°F to +140°F range (T1)
- -50°C to +1300°C/58°F to +1999°F range (T2)
- 10-95 % RH range
- Maximum- and data hold
- 3½ digit display

**PARAMETERS 352**

Infrared digital Thermometer
Laser targeting
- LCD readout with backlight
- -20°C to +500°C (-4°F to +932°F)
- Display hold and auto power off
- 2 % typical accuracy

**APP 51**

Digital Thermometer
Suitable for environmental test and measurement
- Range from -50°C to +1300°C (with K-probes optional)
- Measuring rate 2.5/sec
- Large LCD (18.5 mm)
- Maximum- and display-hold function
- Protective holster/tilt stand
- Bead probe (model 508K) included as standard
- 508K probe -40°C to +204°C
- Resolution 0.1°C to 1.0°C
- 0.3 % typical accuracy

Customer Service Centre  Freecall 1800 623 350  Fax Stream 1800 067 263
Thermometers, Adaptors and Probes

**APP 50IK**

Immersion Probe
Suitable for liquids
- Range from -196°C to +800°C
- Protected by Inconel sheath

**APP 50SK**

Surface Probe
Suitable for flat or slightly convex surfaces ideal for hot rollers and plates
- Range from 0°C to +400°C
- Protected by Inconel sheath

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Cable Locators, Lux Meters, Tachometers, Sound Level Meters, CO Testers, Motor Rotation Testers

**PARAMETERS PA -191**

Circuit Breaker Identifier
Locates circuit breakers and fuses
- 220 - 240 V AC operation voltage
- 50/60 Hz operation frequency
- Optical and acoustical indication
- Complete with carry case

**BEHA 2032**

Cable Locator
Tracing cables in walls, location of interruptions, short circuits, fuses and their assignment to circuits. Tracing metallic water and heater pipes
- LED display for intensity
  - 7 segment display for transmitter code
  - 0 - 40 cms tracing depth
  - 250 Volt maximum
  - Live or dead circuits
  - Cat II 250 Volt safety standard

**PARAMETERS YF-172**

Digital Lux Meter
Silicon photodiodes, data hold, large 3½ digit LCD
- 200 2000 20,000 50,000 Lux ranges
- 20 200 2000 5000 Foot-candles
- Calibrated to standard incandescent lamp 2865 °K
- Data hold function
- 3½ digit display
- 7 % typical accuracy

**PARAMETERS DS-101**

Digital Sound Level Meter
AC/DC Analogue output suitable for spectrum analysis, etc
- Alarm, Max/Min and data hold functions
- Electret condenser microphone
- 30-80 dB; 50-100 dB; 80-130 dB ranges
- 31.5 Hz-8 kHz frequency range
- 50 dB dynamic range
- 3½ digit display
- 1.5 dB typical accuracy

**BEHA 9048**

Digital Tachometer
Measurement of rpm. Surface speed, and length
- 1-99,999 rpm rotational speed ranges
- 0.1-1,999 metres/min; 0.3-6500 feet/min; 4-78,000 inch/min
- 0.02-99,999 metres; 0.01-99,999 feet; 1-99,999 inches
- Optical and mechanical contact measurement
- 5 digit display
- 0.02 % typical accuracy standard

**CEM CO180**

Carbon Monoxide Meter (Digital)
Data/maximum hold, Audible function, Auto power off
- 0 – 1000 ppm measurement range
- High quality sensor
- 5% typical accuracy
**Insulation Testers**

**Analogue and Digital**

**Cable Locators, Lux Meters, Tachometers, Sound Level Meters, Phase Testers, Motor Rotation Testers**

**HIOKI 3129-10**

**Phase Sequence Tester**

Four red LEDs indicate phase sequence
- 70 - 1000 Volt range
- Audible indication of correct sequence
- Extra wide clips (10 - 40 mm)
- Non-metallic contacts ensuring safety at the work site
- Live wire check (R - S/S - T only)
- Cat IV 600 Volt safety standard

**HIOKI 3423**

**Digital Lux Meter**

With analogue output
- 20-200,000 Lux range
- 5 sec response time
- 4% typical accuracy
- 3½ digit display

**HIOKI 3454-51**

**Digital Insulation Tester**

Auto discharge, live circuit warning
- 250 V, 500 V, 1000 V testing voltages
- 4, 40, 400, 4000 Ω resistance range
- 0-750 V AC live circuit voltage measurement
- 4000 count display
- 3 % typical accuracy
- Cat III 600 V safety standard

**HIOKI 3452-13**

**Analogue Insulation Tester**

Live line test, illuminated scales
- 250 V 40 MΩ
- 500 V 400 MΩ
- 1000 V 4000 MΩ
- 4, 40, 400, 4000 Ω resistance range
- 0-600 V AC/DC live circuit voltage measurement
- 5 % typical accuracy
- Cat III 500 V safety standard

**HIOKI 3450-10**

**Digital Insulation Tester**

Discharge beeper, automatic lead nulling
- 250 V 40 MΩ
- 500 V 400 MΩ
- 1000 V 4000 MΩ
- 4, 40, 400, 4000 Ω resistance range
- 0-600 V AC/DC live circuit voltage measurement
- 3 % typical accuracy
- 4 digit display
- Cat III 600 V safety standard

**SEW ST-860**

**Combination Phase Sequence Indicator**

Indicates open phase, phase sequence and motor rotation
- 100 - 600 V AC input voltage
- 45 - 70 Hz frequency range
- Large size alligator clips
- Cat III 600 Volt safety standard

**PARAMETERS PA 520**

**Analogue Insulation Tester**

Taut band movement and mirror-scale
- 250 V 100 MΩ
- 500 V 200 MΩ
- 1000 V 400 MΩ
- 2-20 Ω resistance range
- 0-600 V AC live circuit voltage measurement
- 5 % typical accuracy
- Cat III 600 V safety standard

**PARAMETERS PA 3000**

**Digital Insulation Tester**

Discharge beeper, automatic lead nulling
- 250 V 40 MΩ
- 500 V 400 MΩ
- 1000 V 4000 MΩ
- 4, 40, 400, 4000 Ω resistance range
- 0-600 V AC/DC live circuit voltage measurement
- 3 % typical accuracy
- 4 digit display
- Cat III 600 V safety standard

**MEGGER MIT 310**

**Digital Insulation Tester**

Locking test button, live circuit voltmeter
- 250 V, 500 V, 1000 V testing voltages
- 0-999 MΩ test range
- 0-600 V AC/DC live circuit voltage measurement
- Continuity test
- 3 % typical accuracy
- Cat III 600 V safety standard

Customer Service Centre Freecall 1800 623 350 Fax Stream 1800 067 263
MEGGER MIT 310A

Analog Insulation Tester
Locking test button, live circuit voltmeter and weather-proof case
• 250 V, 500 V, 1000 V testing voltages
• 0-999 MΩ test range
• 10 Ω to 2 kΩ resistance range
• 0-600 V AC/DC live circuit voltage measurement
• 2.5 % typical accuracy
• Cat III 600 V safety standard

MEGGER MIT 320

Digital Insulation Tester
Bar graph and digital backlit display, locking test button, auto power down and live circuit voltmeter
• 250 V, 500 V, 1000 V testing voltages
• 0-999 MΩ test range
• 10 Ω to 1 MΩ resistance range
• 0-600 V AC/DC live circuit voltage measurement
• Continuity test
• 3 % typical accuracy
• Cat III 600 V safety standard

MEGGER MIT-230

Digital Insulation Tester
Live circuit warning, backlit display, digital and analogue display
• 250, 500, 1000 Volt testing voltages
• 0 - 1000 MΩ test range
• 100 Ω continuity range
• 3½ digit display
• 3 % typical accuracy
• Cat III 600 Volt safety standard

HIOKI 3455

Digital High Voltage Insulation Tester
Digital and analogue display, calculates PI and DAR, backlit display, step voltage and temperature compensation, leakage current measurement
• 250, 500, 1000, 2500 and 5000 Volt testing voltages in 25 V steps
• 0 - 5 TΩ test range
• 3 digit display
• 5% typical accuracy
• USB with bundled software for data transfer
• Cat IV 600 Volt safety standard

MEGGER MIT-400

Digital, Industrial Maintenance Insulation and Continuity Tester
Digital and analogue display, live circuit warning, test lock button
• 250, 500, 1000 Volt testing voltages
• 0 - 200 GΩ test range
• 20 GΩ resistance range
• 200 Ω continuity range
• 3½ digit display
• 3 % typical accuracy
• Cat IV 600 Volt safety standard

MEGGER MIT-420

Digital, Industrial Maintenance Insulation and Continuity Tester
Digital and analogue display, calculates PI and DAR, live circuit warning and test lock button
• 50, 100, 250, 500, 1000 Volt testing voltages
• 0 - 200 GΩ test range
• 200 GΩ resistance range
• 200 Ω continuity range
• 3½ digit display
• 3 % typical accuracy
• Cat IV 600 Volt safety standard

MEGGER BM 15

Analogue Insulation Tester
Rechargeable battery-operated
• Loaded battery test
• 500, 1000, 2500 and 5000 V testing voltages
• 0-200 GΩ test range
• 100 kΩ to 20 GΩ resistance range
• Max. Capacitive load 5 µF capacitance
• 2.5 % typical accuracy
• Cat III 300 V safety standard

MEGGER MJ 15

Analogue Insulation Tester
Battery-and hand cranked operation
• Loaded battery test
• 500, 1000, 2500 and 5000 V testing voltages
• 0-200 GΩ test range
• 100 kΩ to 20 GΩ resistance range
• Max. Capacitive load 5 µF capacitance
• 2.5 % typical accuracy
• Cat III 300 V safety standard
Insulation Testers
Digital/Analogue/Combination

NIEAF-SMITT IRT-S

Digital Insulation Tester
Stores 500 test results, RS 232 interface
• 100, 250, 500 and 1000 V testing voltages
• 0-199.9 MΩ test range
• 20 Ω partial earth bond test
• 440 V voltmeter
• 3 digit display
• 2 % typical accuracy
• Cat III 300 V safety standard

Digital Leakage Clamp Tester
40 mm clamp and automatic zero
• 30/200 mA leakage current
• 30/300 A AC current
• Data hold and auto power off
• 3200 count display
• 1.2 % typical accuracy
• Cat II 600 V safety standard

HIOKI 3283

TRMS Digital Leakage Clamp Tester
40 mm clamp
• 10, 100 mA; 1,10, 200 Amps AC current
• 100, 1000 Hz frequency
• 1 % accuracy
• 2000 count display and bar graph
• Cat III 300 V safety standard

TRMS AC Digital Leakage Clamp Tester
24 mm maximum conductor diameter
Slim body, reversible (“Flip Design”) display
• 30 mA; 300 mA; 6, 60, 600, 1000 Amps AC max. ranges
• 3000 count Display
• 2% typical accuracy
• Cat II 600 V safety standard

NIEAF-SMITT RCT-S

Digital RCD Tester
Stores 500 test results, displays current and trip times
• 10/30/100/300/500 mA trip current
• 100/1000 msec time range
• 250 V live circuit voltage
• 25-50/499 Hz frequency
• 3 digit display
• Cat III 300 V safety standard

Digital RCD Tester
Three-phase safe, backlit display
• 10/30/100/300/500/1000 mA trip current
• Ramp test
• 0°/180° polarity selection
• 25/250 V touch voltage
• 1 % typical accuracy
• Remote testing cycles through tests and records results
• Cat III 300 V safety standard

MEGGER RCD T320

MEGGER RCD T310

Digital RCD Tester
Three-phase safe
• 30/100/300/500 mA trip current
• 0°/180° polarity selection
• 25/250 V touch voltage
• 1 % typical accuracy
• Cat III 300 V safety standard

Digital Leakage Clamp Tester
30/100 mA leakage current
• 100/200 Amps AC current
• 600 Volts AC/DC
• 1000 Hz frequency
• 4 digit display
• 2 % typical accuracy
• Cat III 600 V safety standard

Customer Service Centre Freecall 1800 623 350 Fax Stream 1800 067 263
**Earth Testers, Loop Testers, Multi-Function Testers**

**HIOKI 3151**

**Earth Tester**
Two and three-wire method, test frequency selectable to reduce harmonic interference
- 0-10/1000 Ω ground resistance ranges
- 0-30 Volts AC voltage range
- 2.5 % typical accuracy
- Cat II 500 V safety standard

**MEGGER DET 4TD**

**Digital Earth Tester**
Two, Three and Four-wire testing method, complete with lead and stake kit
- 0.01Ω - 2kΩ resistance range
- 0 - 100 V earth voltage range
- 3½ digit display
- 2 % typical accuracy
- IP 54 case
- Cat IV 100 Volt safety standard

**MEGGER DET 3TD**

**Digital Earth Tester**
Two and Three-wire testing method, complete with lead and stake kit
- 0.01Ω - 2kΩ resistance range
- 0 - 100 V earth voltage range
- 3½ digit display
- 2 % typical accuracy
- IP 54 case
- Cat IV 100 Volt safety standard

**NIEAF-SMITT ERT-S**

**Digital Earth Tester**
Two and three-point method, stores up to 500 measurements, RS 232 interface
- Specific earth resistance: 0 to 1999 kΩ resistance range
- Earth resistance: 0 to 50 kΩ resistance range (2- and 3- point method)
- Utility resistance: 0.5 to 2 kΩ resistance range
- Cat II 600 V/Cat III 300 V safety standard

**NIEAF-SMITT ELT-S**

**Earth Loop Resistance Tester**
Phase-phase, phase-neutral, phase-earth, and neutral-earth resistance measurements; stores 500 test results, RS 232 interface
- Impedance: 0 to 1999 Ω resistance range
- 440 V live circuit voltage
- 25-500 Hz frequency
- 0-40 kA short circuit current
- 3 digit display
- Cat II 600 V/Cat III 300 V safety standard

**MEGGER LT 320**

**Earth Loop Resistance Tester**
Suitable for three-phase and single-phase supply systems
- Two-wire test (high current)
- Single phase loop testing
- Phase to phase loop testing
- Polarity indication
- Phase rotation indication
- 5 % typical accuracy
- Cat III 300 V safety standard

**MEGGER LRCD 220**

**Digital Loop and RCD Tester**
Non tripping loop tester, pfc calculation and display, phase-to-phase testing, automatic RCD testing
- 0.01 Ω - 2kΩ loop measurement
- high current loop testing
- 10/30/100/300/500/1000 mA ranges (RCD)
- 0° - 180° phase selection (RCD)
- ramp testing (RCD)
- 3 digit display
- 5 % typical accuracy
- Cat III 300 V safety standard

**MEGGER MFT 1501/2**

**Insulation, RCD and Loop Tester**
Combination tester with visible and audible warning and shutter system to prevent misconnections
- 200 mA continuity testing from 0.01Ω-99.9kΩ
- 250 V, 500 V, and 1000 V insulation testing
- Two-wire test (high current)
- Phase-neutral & phase-earth loop testing
- Non-tripping 0.01Ω loop test
- 10mA - 1000 mA RCD ranges
- RCD ramp test to measure RCD trip current
- Illuminated switched probe (optional)
- Phase to phase loop testing
- 2 % typical accuracy
- Cat III 300 V safety standard
**MEGGER PAT 32/ELT-1**

**Appliance Tester**  
Universal tester for 110 V and 240 V tools and appliances  
- Digital and analogue display  
- Automatic pass bands  
- Fuse and continuity test  
- Extension lead test (ELT-1 option)  
- Circuit and earth bond test (10 A and 25 A)  
- Insulation testing  
- 2.5 % typical accuracy  
- Cat II 300 V safety standard

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**MEGGER PAT 4DV/3**

**Appliance Tester**  
Universal tester earthed (Class 1) and double insulated (Class 2) tools  
- Dual voltage; 110 V and 240 V  
- Fuse and continuity test  
- Extension lead test  
- Circuit and earth bond test (10 A and 25 A)  
- Insulation testing  
- Operation test  
- Earth leakage test  
- Internal memory for 1000 test results  
- RS 232 port for downloading to PCs  
- 5 % typical accuracy  
- Cat III 300 V safety standard

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**MEGGER M 863**

**Barcode label printer for PAT 4DV/3**  
- Prints bar code labels on-site  
- Reduces re-test times  
- Small size; fits in PAT 4 Case  
- Rechargeable battery and mains adaptor included  
- 6220-610 clear vinyl label covers, available as accessory  
- 6121-570 labels available as accessory

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**MEGGER 6231-623**

**Barcode Scanner for PAT 4DV/3**  
- Allows rapid retrieval of stored asset details  
- Simple connection via serial port  
- No setting to use

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**PROVA AFLEX 3005**

**Flexible Power Quality Tester**  
Suitable for single phase and balanced three phase supplies  
- 3000 Amps flexible clamp  
- Measures voltage, current, apparent power, harmonics, reactive power, energy, power factor, phase angle  
- TRMS volts and amps  
- 4 digit display  
- 2 % typical accuracy  
- Cat III 600 Volts safety standard

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**HIOKI 8205-10 & 8206-10**

**8205 1ch & 8206 2ch Recorder**  
Records voltage and current (with optional clamp)  
- 0.1 V to 500 Volts full scale (12 ranges)  
- 20 Hz to 30 kHz frequency band  
- Single channel for voltage, or current (with optional clamp-on sensor)  
- 20 cm/min to 2 cm/hour paper speed  
- 2 % typical accuracy  
- Cat III 500 V safety standard  

Optional accessories  
- 9650 100 Amps clamp  
- 9651 500 Amps clamp  
- 9668 1000 Amps clamp

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**HIOKI 3641-20**

**Temperature and Humidity Logger (HACCP)**  
Records temperature and humidity on two channels using 9680 sensor provided.  
- -40°C to +85°C temperature range  
- 0.0-100% rh relative humidity range  
- 5% rh, ±0.5°C typical accuracy  
- Storage capacity 16,000 data points (8000 x 2 channels)  
- Recording interval 2/5/10/15/20/30/60 seconds  
- Requires 3912-20 communication base (USB) for data transfer complete with software

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**HIOKI 3169-20**

**Clamp on Power Tester**  
Suitable for three-phase three- and four-wire, and single phase supplies (optional clamps required)  
- 150-600 Volts line voltage  
- Measures voltage, current, active/reactive power, apparent power consumption, power factor, frequency and harmonics  
- Cat III 600 V safety standard  

Optional accessories  
- 9660 100 Amps clamp  
- 9661 500 Amps clamp  
- 9669 1000 Amps clamp  
- 9667 Flexible clamp-on sensor, 5000 Amps  
- 9664; 5 Amps clamp  
- 9290-10, 10:1 ratio clamp adapter (1500 Amps rating)
Clamp on Current Logger
Suitable for measurement of alternating current on two channels (optional clamps required)
• 50/500 Amps ranges
• Clamps supplied separately (models 9650, 9651)
• Stores 32000 data points
• Optional 3912-20 communication base and software
• Cat I 300 V safety standard

Optional accessories
• 9650 100 Amps clamp
• 9651 500 Amps clamp

Power Quality Analyser
Suitable for three phase 3 and 4-wire supplies as well as single phase circuits
• monitor for: inrush current, voltage swells, voltage dips, interruptions and transients
• measure and record: power and power factor, active and reactive energy, voltage, current and demand, energy consumption and harmonic distortion
• TRMS measurement
• CAT IV 300 Volt safety standard
• optional accessories
9660 100 Amps clamp
9661 500 Amps clamp
9669 1000 Amps clamp
9667 5000 Amps flexible clamp-on sensor
9694 5 Amps clamp

TRMS Digital Power Clamp Tester
35 mm Conductor, display and peak hold, backlight display, power factor, watts, total harmonic distortion measurements, phase rotation indication, inrush current measurement
• 600 Amps AC/DC
• 60, 600, 750 Volts AC, 60, 600, 1000 Volts DC
• 0-20 kΩ resistance range, continuity/diode test
• 20 Hz-4 kHz frequency range
• -50°C to 100°C temperature range
• 6000 count display, 1.9% typical accuracy
• Cat III 600 V safety standard

Battery Tester
Instantaneous determination of battery deterioration Auto hold/auto memory, ideal for testing UPS batteries
• 3 mΩ-3 Ω resistance range
• 6, 60 Volt range
• -10°C to 60°C temperature range
• 1 kHz frequency measurement
• 1.5 mA, 15 mA, 150 mA measurement current range
• 1% typical accuracy
• USB with bundled software for data transfer
• Cat I safety standard

Laser light source
• 1550 nm wavelength (1310 nm for 3663-20)
• CW or 270 Hz, 1 kHz, and 2 kHz modulation
• FC, SC connectors (using optional connector adaptor)
• Single mode fibre
• -6 ± 2 dBm output level

LAN Cable Tester
Simple operation, large LCD shows wiring status, suitable for twisted pair, shielded and unshielded Cat 3, 4, 5, 5E, and 6
• wire map, detects opens, shorts, reversed, transposed and split pairs
• cable length (2 - 300 metres); measures cable length and distance to fault
• destination; tests multiple cables simultaneously using optional terminators

Optical Power Meter
Simple and intuitive operation; stores up to 1000 data points; USB interface
• 850 nm, 1310 nm, 1550 nm calibration wavelengths
• -60 dBm to + 9 dBm
• FC, SC connectors (using optional connector adaptor)
• Single and multi-mode
• 5% typical accuracy
**Accessories**

**PARAMETERS PALD2**

**Test Lead kit**
- Heavy duty alligator clips
- Test probes with selection of 4 demountable tips
- Hook-on probes and test leads
- Cat III 1000 V, 10 A safety standard

**AL-30FL**

**Fused lead Set**
- Double insulated lead, 1 metre
- Spring shrouded, 4 mm brass caged, banana probe tip
- Straight input safety plug
- Interrupting capacity, 30 kA
- Cat III 1000 V safety standard

**APPA ATL-3**

**Lead Set**
- Hard tips and comfort grip
- Safety shrouded, right-angle plug
- 1.2 metre lead length
- Suits Appa 70, 90, 100 series and most makes and models
- Cat III 1000 V safety standard

**APPA 15 ADAPTOR**

**AC Current Transducer**
- 29 mm conductor Plugs into the Appa 17 multimeter
- 0.1 to 300 Amps AC maximum
- 1.9 % typical accuracy

**APPA AC-90**

**Carry Case**
- Zippered carry case
- Separate pocket for test leads
- Convenient belt loop
- Suits Appa 70, 90, 100 series and most makes and models
- Cat III 1000 V safety standard

**EASYVOLT H1**

**Holster**
- Suits Eazyvolt I / II and other Voltage Testers and Hand Tools

**APPA 11H**

**Humidity attachment for Digital Multimeters**
- 10-95 % RH range
- In-built polymer sensor
- Battery voltage check
- 3 % typical accuracy

**PD-20**

**High Voltage Probe for use with Multimeters**
- Measures AC/DC voltages
- DC Volts 0-30 kV
- AC Volts 0-20 kV
- Input impedance 500 MΩ
- Attenuation Ratio 1000:1
- Cable Length 1m

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About Power Parameters

OUR SERVICES

Service is not an empty word for us; on the contrary it is the reason why we are in business today. Whether it is the installation of a 1000 kVA UPS system, calibration of an impedance relay test set, repair of a high bandwidth, storage oscilloscope, application advice on power quality measurement, or plain, old-fashioned courteous treatment of customers and suppliers, we have the right mindset and skills for the job. Our services and capabilities include:

- professional advice on the selection of equipment and methods of measurement
- product warranty register maintenance
- on-site training of our technicians
- seminars in conjunction with suppliers
- NATA calibration for electrical, mechanical and temperature parameters

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OUR PRODUCTS

Power Parameters has the Australia-wide distribution of

- Hioki (recorders, data loggers, power analysers and field test instruments)
- Omicron (protective relay test sets, primary injection test systems)
- Baur (high-voltage test sets, cable test sets, oil testers)
- Socomec (uninterruptible power supply systems)
- Megger (insulation testers, appliance test sets, earth and RCD testers), Kenwood and EZ (oscilloscopes, power supplies, function generators, frequency counters)
- Schaffner (back-plane and cable harness testers, electro-emulation testers)

as well as over twenty other electrical and electronic test and measurement instrumentation ranges.
CALIBRATION AND REPAIR OF FIELD INSTRUMENTS

Your professional integrity should not be endangered by uncalibrated test and measurement instruments or by equipment requiring repair. The consequences of an incorrect insulation or loop resistance measurement, an invalid test on an earth leakage breaker or touch potential could cause injury, even death—and have grave consequences for your business.

Power Parameters’ NATA-certified laboratory and ultra-modern repair facilities can rapidly and economically reinstate your test equipment to its original specifications and provide you with an authorised calibration test certificate. Calibration capabilities include:

- AC and DC voltage
- AC and DC current
- Resistance
- Time and Frequency

Power Parameters’ calibration and repair centre is staffed by highly-qualified, factory trained technicians, and has been in continuous operation for over four decades. It is your guaranty of professional performance.