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POWER ANALYZER PW6001

Ultra-precise Measurement for High-efficiency Inverters & Motors

- Basic accuracy for power: ±0.02% rdg.
- High performance current sensor input
- 5MS/s sampling, 18 bit A/D resolution
- DC to 2MHz bandwidth
- 10ms fastest data update
- Max. 6ch (Synchronize 2 Units: 12ch)
- High-capacity waveform storage
- Powerful harmonic analysis (100th order)
- FFT analysis, user-defined waveform calculation
- Motor analysis (4ch), Efficiency analysis

HEV and EV measurement systems

3-phase inverter
**POWER ANALYZER**

**PW3390**

4ch High-precision Power Analyzer

- Basic accuracy: ±0.04% rdg. + current sensor accuracy
- Max. 4ch / High-capacity waveform storage
- 500kS/s sampling, DC to 200 kHz bandwidth, 50ms data update
- High performance harmonic analysis (100th order)
- Motor analysis (3ch), Efficiency analysis, FFT Analysis
- For high-efficiency inverters & motors (EV/HEV/PHV)
- For solar & wind power generation and smart grids
- Evaluate WLTP Mode Performance - A new Fuel Economy Standard

**POWER METER**

**PW3337**

3ch High-performance AC/DC Power Meter

- Basic accuracy: ±0.1% rdg. (DC, 50/60Hz)
- 100kHz bandwidth, 65 A AC/DC direct input
- Built-in external current sensor input terminals (up to 5000A AC)
- Harmonic analysis (50th order), IEC 61000-4-7 compliant
- High-accuracy measurement, even with a low power factor
- Ideal for no-load testing of transformers and motors

**POWER METER**

**PW3335**

Single-Phase AC/DC Power Meter

- Basic accuracy: ±0.1% (DC, 50/60Hz)
- Wide current range (1mA to 20A)
- Built-in external current sensor input terminals (up to 5000A AC)
- Harmonic analysis (50th order), IEC 61000-4-7 compliant
- High-accuracy measurement, even with a low power factor
- For standby power consumption testing of home appliances (IEC62301-compliant)
POWER QUALITY ANALYZER

PW3198

The New World Standard for Power Quality Analysis

- IEC61000-4-30 Class A (Voltage accuracy: 0.1% of Udin)
- Measure all parameters at the same time
- Accurately measure peaks in transient overvoltages (2MS/s sampling)
- Harmonic analysis (50th order) + High-order harmonics to cover up to 8kHz
- Simultaneous recording of time plot data and event waveforms
- Capture any phenomenon with remote control via LAN

CLAMP ON POWER LOGGER

PW3365

Ensure Safety with the World's First Non-Metallic Contact Energy Logger

- Dedicated voltage sensor delivers non-metallic contact testing
- Voltage measurement up to 520V
- Simple, fast and reliable measurement using QUICK SET function
- Store months of data on SD cards

PW3360

Easy to Use Energy Logger to Support Power Consumption Management

- See demand and trend graphs on site
- Supports single-phase to three-phase 4-wire circuits
- Measure up to 780V with a 1000V display range
- Harmonic analysis to 40th order (PW3360-21)
**WIRELESS LOGGING STATION**

**LR8410**

Wireless Multi-channel Data Logging via Bluetooth

- DC Voltage / Temperature / Humidity / Pulse / Rotation / Resistance
- 15ch to 105ch isolated input wireless logger
- Connect up to 7 logging modules easily
- High-speed 100ms sampling across all channels
- Eliminate long wires and reduce noise effects

**MEMORY HiLOGGER**

**LR8400 Series**

Portable 30ch Data Logger, Expandable to 60 Channels

- DC Voltage / Temperature / Humidity / Pulse / Rotation / Resistance
- Max. 10ms interval recording in real-time
- Store data securely for more than 1 year (SD Card / USB Memory)
- Bundled user-friendly software for PC analysis

**MEMORY HiLOGGER**

**LR8431 / LR8432**

LR8431 : Portable 10ch Data Logger

- DC Voltage / Temperature / Pulse / Rotation
- 10ms sampling and recording across all channels

LR8432 : Simplify heat flow measurement

- Ideal for evaluating insulation performance and temperature change
- Visualize the underlying causes of temperature change
MEMORY RECORDERS

MR8827

Perfect for Multi-channel Waveform Recording

- Analog 32ch + Logic 32ch to Analog 28ch + Logic 64ch
- Max. 20MS/s simultaneous sampling across all channels
- Isolated input on all channels ensures safety
- Built-in 512MW memory
- Measure signals of multiple systems at the same time
- Ideal for utilities and power generation (thermal / hydro / solar & wind power generation)

MEMORY HiCORDER

MR8847A (MR8847-51/52/53)

Combine Waveform Recording and Generating Functions for Simulation Testing

- Compatible with new ARBITRARY WAVEFORM GENERATOR UNIT (U8793)
- Analog 16ch + Logic 16ch to Analog 10ch + Logic 64ch
- Max. 20MS/s simultaneous sampling across all channels
- Isolated input on all channels ensures safety
- 3 memory capacities: 64MW (-51) / 256MW (-52) / 512MW (-53)
- Ideal for heavy electromechanical applications (motors, transformers, inverters, UPS, switching power supplies)

NON-CONTACT AC VOLTAGE

SP3000

Capture Voltage Signals from Outside the Wire Cover

- Observe waveforms with an oscilloscope or a Hioki Memory HiCorder by visualizing signals from electric equipment simply by applying the probe to the wire’s insulation
- Capture LIN and other communications signals
- Measure signals from electric equipment on vehicles
MEMORY RECORDERS

MR8875

1000 V Direct Input Multi-channel Portable Logger

- Portable A4 compact size (Analog 16ch + Logic 8ch + Pulse 2ch)
- 1000V input (DC or RMS) with new Analog Unit MR8905
- Max. 2 μsec high-speed simultaneous logging across all input channels
- CAN-Bus signal input for vehicle testing
- Ideal for automotive testing (EV/HEV motors, ECU, batteries)
- Railway, ship and avionic applications

MR8880

Rugged, Professional and Ready for the Field

- 4 completely isolated channels (3-phase power line + 1 extra channel)
- CAT III 600V isolation performance; directly measure a 480V power line
- Tough against harsh environments (-10°C to 50°C)
- Geared for electrical maintenance and service applications

MR8870

Includes Recording of RMS Variations in a Single Device

- New mode for recording RMS fluctuations in addition to waveform mode
- Synchronize 2 units to create a 4-channel recorder via PC application
- Powerful analysis in a compact and easy-to-carry device
- Ideal for on-the-go maintenance work
IMPEDEANCE ANALYZER
IM7585 / IM7583

IM7585: 1MHz to 1.3GHz  IM7583: 1MHz to 600MHz

- Impedance Analyzer Mode / LCR Measurement Mode
- 0.5ms high-speed testing (analog measurement time)
- High stability measurement: 0.07% variation of the measured value (typical)
- Equivalent circuit analysis (5 models)
- Contact check function ensures reliable testing
- For high-frequency inductors and capacitors
- For common-mode filters / ferrite bead arrays / power inductors

Equivalent circuit analysis function (5 models)
IMPEDEANCE ANALYZERS (LCR METERS)

IM3570
DC, 4Hz to 5MHz Measurement Frequency

- Impedance Analyzer Mode / LCR Measurement Mode
- 1.5ms (1kHz) and 0.5ms (100kHz) high-speed testing
- LCR measurement, DC resistance measurement, continuous measurement sweep
- Frequency sweep, level sweep and time interval measurement (Impedance analyzer mode)
- Test the resonance characteristics of piezoelectric elements
- C-D and low ESR measurement of functional polymer capacitors
- DCR and L-Q measurement of inductors (coils and transformers)

LCR METER
IM3536
DC, 4Hz to 8MHz Measurement Frequency

- The new standard for high-speed and high-stability LCR meters
- High ±0.05% rdg. precision and 1ms high-speed testing
- Built-in contact check function and guaranteed accuracy range from 1mΩ deliver high reliability
- For capacitors and inductors, resistors and electronic components
- Simplifies the process of building production lines

LCR METER
IM3523 / IM3533
IM3533: DC, 1mHz to 200kHz
IM3523: DC, 40Hz to 200kHz

- High ± 0.05% rdg. accuracy and 2ms measurement time
- For capacitors, inductors, resistors and electronic parts
- IM3533: Ideal for winding coil and transformer production lines to measure turn ratio N, mutual inductance M, and inductance difference \( \Delta L \) using DCR measurement with temperature compensation, R&D, and electrochemical applications
- IM3523: Perfect for integration into production lines and automated testing
RESISTANCE METER

RM3545
Super High Accuracy, Multi-channel Low Resistance Meter
- 0.006% basic accuracy to deliver a high accuracy resistance meter
- 0.01μΩ minimum resolution and 1A maximum measured current
- Max. 1200MΩ measurement range
- Low-power resistance measurement with an open voltage of 20mV or less
- Optional Multiplexer Unit Z3003 provides 20-channels with 4-terminal measurement
- For motors, solenoids, choke coils, transformers, and wire harnesses
- For relays, switches, fuses, resistors, heaters, wires, and welds

RESISTANCE METER

RM3544
High-accuracy, Low Resistance Meter Ideal for Production Lines
- 0.02% basic accuracy
- 1μΩ best resolution, 300mA maximum measured current
- Max. 3.5MΩ measurement range
- Probe with guard terminal, strong against noise
- Fits in both automatic and manual production lines

RESISTANCE METER

RM3548
High-precision Portable Low Resistance Meter
- 0.02% basic accuracy
- 0.1μΩ best resolution, 1A maximum measured current
- Max. 3.5MΩ measurement range
- Easy operation and easy recording of up to 1000 data sets
- Portable design ideal for maintenance and testing of large equipment

Multiplexer Unit Z3003
BATTERY IMPEDANCE METER

BT4560

Determine Li-ion Battery Reliability in Just 10 Seconds

- Low-frequency AC-IR measurement enables faster measurement
- Uses AC-IR as an alternative measurement method for inspecting charge/discharge output characteristics (DC-IR)
- Variable measurement frequency (0.1Hz to 1050Hz)
- Up to 5V of allowable input voltage (for Li-ion battery cells)
- Extremely reliable measurements for low-impedance batteries
- Simultaneous measurement of impedance and voltage
- Create Cole-Cole plots using bundled software

BATTERY HITESTER

BT3562 / BT3563

For Production Line Testing of High Voltage Battery Packs and Modules

- High ±0.01% rdg. accuracy
- AC 1kHz measurement frequency
- Measure high-voltage battery packs up to 300V (BT3563) or 60V (BT3562)
- Large (low-resistance) cell testing
- Choice of high speed PC interfaces for full remote operation
- Handler interface (external I/O)

BATTERY HITESTER

BT3554

Medium and Large Lead Acid Battery Tester Ideal for Diagnosing UPS Batteries

- Diagnose the deterioration state of UPS batteries via internal resistance measurement
- Instantaneously diagnose degradation (PASS, CAUTION, FAIL)
- Strong against noise
- Store up to 6000 data in built-in memory and transfer to PC via USB/Bluetooth (BT3554-01 only)
- Increased measurement efficiency thanks to new compact, lightweight probes
SAFETY TESTERS

ST5540 / ST5541

ST5540 : Leakage Current Testing for Medical Electrical Equipment
ST5541 : For General Electrical Equipment

- Ground leak current, contact leak current, patient leak current, total patient leak current
- IEC 60601-1, IEC60990 (ST5540), IEC60335-1, IEC 60065 (ST5541), etc.
- Automatically test using the uninterruptible polarity switching function
- Support for rated currents up to 20A designed to comply with new standards
- USB interface and external I/O support enable automatic testing on production lines

LEAK CURRENT HiTESTER

ST5520

Freely configurable test voltage (set from 25V to 1000V)
High-speed auto discharge function
Short-circuit check function (stop potential defects)
Contact check function (prevent errors due to poor contact)

Industry’s Fastest Testing Speed (Max. 50ms)

INSULATION TESTER

ST5520

Withstanding voltage: AC/DC 5kV / 500VA (3174 AC only)
Insulation resistance test voltage: DC50V to 1200V (1V step)
Full remote control from a PC (Voltage / Comparator / Timer)
Can be saved 32 ways with programmable test settings
Model 3154 connectable with dedicated scanner Model 3930

AUTOMATIC INSULATION / WITHSTANDING HiTESTER

3153 / 3174

AC/DC Hi-Pot Tester (Electrical Safety Test)
AC/DC CURRENT PROBE
CT6841/43/44/45/46
Consistent, high-precision current testing across a wide temperature range (-40°C to 85°C)

CT6841: DC to 1 MHz, rated 20A AC/DC, 0.1 V/A output
CT6843: DC to 500 kHz, rated 200A AC/DC, 0.01 V/A output
CT6844: DC to 2 MHz, rated 500A AC/DC, 0.01 V/A output
CT6845: DC to 100 kHz, rated 500A AC/DC, 4mV V/A output
CT6846: DC to 20 kHz, rated 1000A AC/DC, 2mV V/A output

AC/DC CURRENT SENSOR
CT6862
- Frequency characteristics
  Amplitude: DC to 1 MHz
  Phase: DC to 300 kHz
- Rated 50A AC/DC
- 2V/50A output
  φ 24mm

AC/DC CURRENT SENSOR
CT6863
- Frequency characteristics
  Amplitude: DC to 500 kHz
  Phase: DC to 300 kHz
- Rated 200A AC/DC
- 2V/200A output
  φ 24mm

AC/DC CURRENT SENSOR
9709
- Frequency characteristics
  Amplitude: DC to 10 MHz
  Phase: DC to 300 kHz
- Rated 500A AC/DC
- 2V/500A output
  φ 36mm

AC/DC CURRENT SENSOR
CT6865
- Frequency characteristics
  Amplitude: DC to 20 kHz
  Phase: DC to 1 kHz
- Rated 1000A AC/DC
- 2V/1000A output
  φ 36mm

CURRENT SENSORS FOR HIGH-PRECISION POWER MEASUREMENT
CURRENT SENSORS FOR WIDEBAND WAVEFORM OBSERVATION
CURRENT PROBE
CT6700 / CT6701
Observe Low Current Waveforms of 1 mA

CT6700
- DC to 50 MHz (-3dB)
- 5 Arms maximum
- 1 V/A output
- φ 5 mm (0.20 in) core dia.

CT6701
- DC to 120 MHz (-3dB)
- 5 Arms maximum
- 1 V/A output
- φ 5 mm (0.20 in) core dia.

CLAMP ON PROBE
3273-50
- DC to 50 MHz (-3dB)
- 30 Arms maximum
- 0.1 V/A output
- φ 5 mm core dia.

CLAMP ON PROBE
3274
- DC to 10 MHz (-3dB)
- 150 Arms maximum
- 0.01 V/A output
- φ 20 mm core dia.

CLAMP ON PROBE
3275
- DC to 2 MHz (-3dB)
- 500 Arms maximum
- 0.01 V/A output
- φ 20 mm core dia.

CLAMP ON PROBE
3276
- DC to 100 MHz (-3dB)
- 30 Arms maximum
- 0.1 V/A output
- φ 5 mm core dia.
**CLAMP ON METERS**

**AC/DC CLAMP METER**

**CM4371 / CM4373**

- Standard AC/DC clamp meter
- 600 A AC/DC, φ 33mm (CM4371)
- 2000 A AC/DC, φ 55mm (CM4373)
- AC/DC voltage, current, frequency, continuity, resistance, capacitance, temperature, diode, inrush
- Auto discrimination function (ACV / DCV)
- True RMS, CAT IV 600V

**CLAMP ON LEAK HiTESTER**

**3283-20**

- For leakage current measurement
- 5 ranges (10.00mA AC to 200.0A AC)
- Supports up to φ 40mm conductors
- Frequency testing
- True RMS, CAT III 300V

**CLAMP ON HiTESTER**

**3280-10F/-20F**

- Pocket AC clamp meter with flexible clamp sensor
- 3280-10F (MEAN)
- 3280-20F (True RMS)
- Wide 42.00 A AC to 1000 A AC range
- AC/DC voltage and resistance
- Compact and only 16mm thin
- φ 33mm, CAT III 600V (current)

**CLAMP ON AC/DC HiTESTER**

**3288-20**

- Pocket AC/DC clamp meter
- 3288 (MEAN) / 3288-20 (True RMS)
- Wide 100.00A A AC to 1000A AC range
- Compact and only 16mm thin
- φ 33mm, True RMS
- CAT III 600V (current)
**EARTH TESTERS / INSULATION TESTERS**

**CLAMP ON EARTH TESTER**
**FT6380 / FT6381**
- For grounding resistance measurement
- Thinnest and lightest core in industry
- True RMS, CAT IV 600V
- Memory to store 2000 data sets
- Bluetooth model for displaying and reporting on Android terminals (FT6381)

**EARTH TESTER**
**FT6031-03**
- 2-pole method / 3-pole method
- 3 ranges (20.00Ω to 2000Ω)
- EN61557 compliant
- IP67 (dustproof and waterproof)
- Completely submersible in water
- Automatically check cable breaks
- CAT II 300V/CAT III 150V

**MAGNETIC FIELD HİTESTER**
**FT3470-52**
- Magnetic field measurement methods according to IEC 62110/IEEE 644 and IEC 62233 and ICNIRP 2010 guidelines
- For electrical power equipment
- Compliance testing of home appliances
- Display T, A/m and G
- 10Hz to 400kHz frequency
- With 100cm² and 3cm² sensors

**INSULATION TESTER**
**IR4053**
- Insulation resistance meter and PV panel insulation tester all in one unit
- Non-short-circuit measurement method of IEC 62446 (PV panel mode)
- High speed display (PV mode: 4sec.)
- 50/125/250/500/1000V, EN61557 compliant

**INSULATION TESTER**
**IR4056 / IR4057**
- 50/125/250/500/1000V (5 range output)
- CAT III 600V / EN61557 compliant
- Fast PASS / FAIL decision (IR4056: 0.8 sec / IR4057: 0.3sec)
- Bright LED backlight
- Auto ACV/DCV detection (600V range)

**ANALOG MΩ HİTESTER**
**3490**
- 250V / 500V / 1000V (3 range output)
- CAT III 600V / EN61557 compliant
- Convenient integrated case (including test leads)
- AC voltage measurement
DIGITAL MULTIMETERS

STANDARD MODELS

**Standard models**

≥0.3% rdg. ±3dgt.
DCV typical accuracy
CAT III (1000V) / CAT IV (600V)

**High-end models**

≥0.025% rdg. ±2dgt.
DCV typical accuracy
CAT III (1000V) / CAT IV (600V)

**DT4252**

**For laboratory and research use**

For laboratories and R&D applications where you wish to measure a wide variety of parameters.

- **DC voltage**: 60.0 mV to 1000 V
- **AC voltage**: 0.000 V to 1000 V
- **AC ± DC voltage**: DT4281/4282 only
- **DC current**: 600.00 μA to 10.00 A
- **AC current**: 600.00 μA to 10.00 A
- **AC clamp-on measurement**
  - Frequency
  - Resistance
  - Continuity check
  - Temperature
  - Diode test
  - Capacitance
  - Conductance
  - AC/DC automatic detection
  - Voltage detection function

**DT4256**

**Multifunction model**

Delivers maximum functionality for use in a wide range of settings.

- **DC voltage**: 600.0 mV to 1000 V
- **AC voltage**: 0.000 V to 1000 V
- **DC ± AC voltage**: DT4281/4282 only
- **AC current**: 600.00 μA to 10.00 A
- **DC current**: 600.00 μA to 10.00 A
- **AC clamp-on measurement**
  - Frequency
  - Resistance
  - Continuity check
  - Temperature
  - Diode test
  - Capacitance
  - Conductance
  - AC/DC automatic detection
  - Voltage detection function

**DT4281**

**For electrical work in the field**

Designed for maximum safety in the field by measuring current with clamp-on sensors.

- **DC voltage**: 60.000 mV to 1000.0 V
- **AC voltage**: 60.000 mV to 1000.0 V
- **DC + AC voltage**: 6.000 V to 1000.0 V
- **DC current**: 600.00 μA to 10.000 A
- **AC current**: 600.00 μA to 10.000 A
- **AC clamp-on measurement**
  - Frequency
  - Resistance
  - Continuity check
  - Temperature
  - Diode test
  - Capacitance
  - Conductance
  - AC/DC automatic detection
  - Voltage detection function

**DT4282**

**For laboratory and research use**

Designed for use in laboratories and R&D applications where you wish to measure a wide variety of parameters.

- **DC voltage**: 600.0 mV to 1000 V
- **AC voltage**: 6.000 V to 1000 V
- **DC ± AC voltage**: DT4281/4282 only
- **DC current**: 60.00 mA to 10.00 A
- **AC current**: 600.0 mA to 10.00 A
- **AC clamp-on measurement**
  - Frequency
  - Resistance
  - Continuity check
  - Temperature
  - Diode test
  - Capacitance
  - Conductance
  - AC/DC automatic detection
  - Voltage detection function

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**PRECISION DC VOLTMETER DM7276 / DM7275**

New Standard for Battery Voltage Management: 7-1/2 Digit

- Highly accurate DC measurements equivalent to 8½ digit DMM
- 9ppm high accuracy model (DM7276) / 25ppm basic model (DM7275)
- Contact check function / Record results with temperature compensation
- Trend graph and BIN functions
- Cell balance testing for lithium-ion batteries

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