P2 - POWER ANALYZERS
P3 - POWER ANALYZERS / POWER METERS
P4 - CURRENT SENSORS
P5 - POWER QUALITY ANALYZERS / POWER LOGGERS
P6 - OSCILLOSCOPES
P7 - MEMORY RECORDERs
P9 - WIRELESS LOGGING STATION / DATA LOGGERS
P10 - IMPEDANCE ANALYZERS
P11 - IMPEDANCE ANALYZERS / LCR METERS
P12 - RESISTANCE METERS
P13 - BATTERY TESTERS
P14 - IMPULSE WINDING TESTERS
P15 - SAFETY TESTERS
P16 - INSULATION TESTERS
P17 - CLAMP ON METERS
P18 - PHASE DETECTORS / BYPASS DIODE TESTERS
P19 - DIGITAL MULTIMETERS / EARTH TESTERS
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 parameter 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/PBV)
- 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)
<table>
<thead>
<tr>
<th>Current Sensor Types</th>
<th>External appearance</th>
<th>Model</th>
<th>Rating</th>
<th>Frequency characteristics</th>
<th>Basic accuracy (Amplitude)</th>
<th>Basic accuracy (Phase)</th>
<th>Operating temperature range</th>
<th>Measurable conductor diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ultra-High Accuracy Pass-Through</strong></td>
<td><img src="image1.png" alt="Image" /></td>
<td>CT6904</td>
<td>500 A</td>
<td>DC to 4 MHz</td>
<td>±0.02%rdg. ±0.007%f.s.</td>
<td>Within ±0.08°</td>
<td>-10°C to 50°C (14°F to 122°F)</td>
<td>φ 32 mm (1.26 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image2.png" alt="Image" /></td>
<td>CT6904-60</td>
<td>800 A</td>
<td>DC to 4 MHz</td>
<td>±0.025%rdg. ±0.009%f.s.</td>
<td>Within ±0.08°</td>
<td>-10°C to 50°C (14°F to 122°F)</td>
<td>φ 32 mm (1.26 in)</td>
</tr>
<tr>
<td><strong>High Accuracy Pass-Through</strong></td>
<td><img src="image3.png" alt="Image" /></td>
<td>CT6662-05</td>
<td>50 A</td>
<td>DC to 1 MHz</td>
<td>±0.05% rdg. ±0.01% f.s.</td>
<td>Within ±0.2°</td>
<td>-30°C to 85°C (22°F to 185°F)</td>
<td>φ 24 mm (0.94 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image4.png" alt="Image" /></td>
<td>CT6863-05</td>
<td>200 A</td>
<td>DC to 500 kHz</td>
<td>±0.05% rdg. ±0.01% f.s.</td>
<td>Within ±0.2°</td>
<td>-30°C to 85°C (22°F to 185°F)</td>
<td>φ 24 mm (0.94 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image5.png" alt="Image" /></td>
<td>CT6875</td>
<td>500 A</td>
<td>DC to 2 MHz</td>
<td>±0.04% rdg. ±0.008% f.s.</td>
<td>Within ±0.1°</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
<td>φ 36 mm (1.42 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image6.png" alt="Image" /></td>
<td>CT6876</td>
<td>1000 A</td>
<td>DC to 1.5 MHz</td>
<td>±0.04% rdg. ±0.008% f.s.</td>
<td>Within ±0.1°</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
<td>φ 36 mm (1.42 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image7.png" alt="Image" /></td>
<td>CT6877</td>
<td>2000 A</td>
<td>DC to 1 MHz</td>
<td>±0.04% rdg. ±0.008% f.s.</td>
<td>Within ±0.1°</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
<td>φ 80 mm (3.15 in)</td>
</tr>
<tr>
<td><strong>High Accuracy Clamp</strong></td>
<td><img src="image8.png" alt="Image" /></td>
<td>CT6841-05</td>
<td>20 A</td>
<td>DC to 1 MHz</td>
<td>±0.3% rdg. ±0.01% f.s.</td>
<td>Within ±0.1°</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
<td>φ 20 mm (0.79 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image9.png" alt="Image" /></td>
<td>CT6843-05</td>
<td>200 A</td>
<td>DC to 500 kHz</td>
<td>±0.3% rdg. ±0.01% f.s.</td>
<td>Within ±0.1°</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
<td>φ 20 mm (0.79 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image10.png" alt="Image" /></td>
<td>CT6844-05</td>
<td>500 A</td>
<td>DC to 200 kHz</td>
<td>±0.3% rdg. ±0.01% f.s.</td>
<td>Within ±0.1°</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
<td>φ 20 mm (0.79 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image11.png" alt="Image" /></td>
<td>CT6845-05</td>
<td>500 A</td>
<td>DC to 100 kHz</td>
<td>±0.3% rdg. ±0.01% f.s.</td>
<td>Within ±0.1°</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
<td>φ 50 mm (1.97 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image12.png" alt="Image" /></td>
<td>CT6846-05</td>
<td>1000 A</td>
<td>DC to 20 kHz</td>
<td>±0.3% rdg. ±0.01% f.s.</td>
<td>Within ±0.1°</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
<td>φ 50 mm (1.97 in)</td>
</tr>
<tr>
<td><strong>High Accuracy Direct Connection</strong></td>
<td><img src="image13.png" alt="Image" /></td>
<td>PW9100-03</td>
<td>50 A</td>
<td>DC to 3.5 MHz</td>
<td>±0.02% rdg. ±0.005% f.s.</td>
<td>Within ±0.1°</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>Measurement terminals M6 screws</td>
</tr>
<tr>
<td></td>
<td><img src="image14.png" alt="Image" /></td>
<td>PW9100-04</td>
<td>50 A</td>
<td>DC to 3.5 MHz</td>
<td>±0.02% rdg. ±0.005% f.s.</td>
<td>Within ±0.1°</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>Measurement terminals M6 screws</td>
</tr>
<tr>
<td><strong>High Accuracy Clamp</strong></td>
<td><img src="image15.png" alt="Image" /></td>
<td>9272-05</td>
<td>20 A, 200 A</td>
<td>1 Hz to 100 kHz</td>
<td>±0.3% rdg. ±0.01% f.s.</td>
<td>Within ±0.2°</td>
<td>0°C to 50°C (32°F to 122°F)</td>
<td>φ 46 mm (1.81 in)</td>
</tr>
<tr>
<td><strong>Wideband Clamp</strong></td>
<td><img src="image16.png" alt="Image" /></td>
<td>CT6710</td>
<td>0.5 A, 5 A, 30 A</td>
<td>DC to 50 MHz</td>
<td>Typical ±1.0%rdg. ±1 mV (30 A range /5 A range)</td>
<td>–</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>φ 5 mm (0.20 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image17.png" alt="Image" /></td>
<td>CT6711</td>
<td>0.5 A, 5 A, 30 A</td>
<td>DC to 120 MHz</td>
<td>Typical ±1.0%rdg. ±1 mV (30 A range /5 A range)</td>
<td>–</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>φ 5 mm (0.20 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image18.png" alt="Image" /></td>
<td>CT6700</td>
<td>5 A</td>
<td>DC to 50 MHz</td>
<td>Typical ±1.0% rdg. ±1 mV</td>
<td>–</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>φ 5 mm (0.20 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image19.png" alt="Image" /></td>
<td>CT6701</td>
<td>5 A</td>
<td>DC to 120 MHz</td>
<td>Typical ±1.0% rdg. ±1 mV</td>
<td>–</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>φ 5 mm (0.20 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image20.png" alt="Image" /></td>
<td>3273-50</td>
<td>30 A</td>
<td>DC to 50 MHz</td>
<td>±1.0% rdg. ±1 mV</td>
<td>–</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>φ 5 mm (0.20 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image21.png" alt="Image" /></td>
<td>3275-50</td>
<td>30 A</td>
<td>DC to 100 MHz</td>
<td>±1.0% rdg. ±1 mV</td>
<td>–</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>φ 5 mm (0.20 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image22.png" alt="Image" /></td>
<td>3274</td>
<td>150 A</td>
<td>DC to 10 MHz</td>
<td>±1.0% rdg. ±1 mV</td>
<td>–</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>φ 20 mm (0.79 in)</td>
</tr>
<tr>
<td></td>
<td><img src="image23.png" alt="Image" /></td>
<td>3275</td>
<td>500 A</td>
<td>DC to 2 MHz</td>
<td>±1.0% rdg. ±5 mV</td>
<td>–</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>φ 20 mm (0.79 in)</td>
</tr>
</tbody>
</table>
The New World Standard for Power Quality Analysis

- Class A compliance (IEC61000-4-30)
- Basic voltage measurement accuracy of ±0.1%
- High-voltage, wideband performance
- Two-circuit measurement
- Simple inverter measurement
- DC, 50Hz, 60Hz, 400Hz line measurement
- GPS time synchronization
- Extensive array of event measurement parameters

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

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)
MEMORY HiCORDER MR6000

200MS/s high speed measurement with isolated inputs
Save long-term measurements in real-time

- 200MS/s high-speed isolated measurement with U8976 Analog Unit
- Measure 32 channels simultaneously with U8975 4ch Analog Unit
- Capture a wide variety of signals such as voltage, current, temperature, vibration, logic, etc.
- SSD, HDD, USB3.0, SD, PC interfaces
- High-speed, real-time save of 1MS/s data across all 32 channels to SSD
- 12.1” touchscreen
- Optional power supply for current probes
- Calculate waveforms while measuring with digital filters (MR6000-01)

Measure inverter signals at high speeds of 200MS/s
Achieve 200MS/s x 16 channels of high speed, isolated measurements with 8 units of U8976

Multi-channel testing ideal for ECU development
Measure 32 channels all simultaneously at a speed of 5MS/s with 8 units of U8975

Eliminate specific frequency noise
MR6000-01’s real-time digital filter calculation function lets you measure waveforms that exclude noise from specific frequencies
MEMORY RECORDERS

MEMORY HiCORDER

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)

MR8847A (MR8847-51/52/53)

MEMORY HiCORDER

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 & CAN BUS SENSORS

SP3000 / SP7000

Measure Signals at the Wiring Harness

- Measure CAN bus or AC voltage signals on the insulated conductor
- Precise CAN FD and CAN signal sensing over the cable insulation (SP7000)
- Observe waveforms with an oscilloscope or a recorder by visualizing signals from electric equipment simply by applying the probe to the wire's insulation (SP3000)
- Highly functional design for measurements even in difficult to access areas
- Ideal for measuring 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
**MEMORY HiLOGGER**

**LR8450 series**

Portable 330ch Data Logger with Wireless & Plug-in Units

- Measure dynamic strain wirelessly at 1 ms sampling rate
- Connect max. 11 units simultaneously (7 wireless units & 4 plug-in units)
- Voltage / Strain / Temperature / Humidity / Resistance
- Ideal for onboard-testing of vehicles and other field applications
- Control the logger remotely and download data files to a computer

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**WIRELESS LOGGING STATION**

**LR8410**

Wireless Multi-channel Data Logging via Bluetooth®

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

---

**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
IMPEDEANCE ANALYZER
IM758x series

- 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 types)
- Contact check function ensures reliable testing
- For high-frequency inductors and capacitors
- For common-mode filters / ferrite bead arrays / power inductors

A rich lineup covering a wide range of measurement frequencies
**Chemical Impedance Analyzer**

**IM3590**

1 mHz to 200 kHz Measurement Frequency

- Measure internal impedance of battery cells thanks to automatic adjustable DC Bias
- Measure LCR impedance for Cole-Cole plots and equivalent-circuit analyses of electro-chemical components and materials
- Easy operation with 5.7” touch display
- Basic accuracy of ±0.05%

**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

**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 ΔL by using DCR measurement with temperature compensation, R&D, and electrochemical applications
- IM3523: Perfect for integration into production lines and automated testing
RESISTANCE METERS

ELECTRODE RESISTANCE MEASUREMENT SYSTEM

RM2610

Quantify composite layer resistance and interface resistance in Li-ion battery electrode sheets

- Measure composite resistivity [Ωcm]
- Measure interface resistance between the composite layer and current collector [Ωcm²]

RESISTANCE METER

RM3544 / RM3545

High-accuracy, Low Resistance Meter

- RM3545: Wide Range 10 mΩ to 1000 MΩ DC Resistance Meters with Multiplexer Option for High-speed Multi-point Testing
- RM3544: Wide Range 30 mΩ to 3 MΩ DC Resistance Meters with Temperature Correction for High Speed Testing on Production Lines
- Measurement speed: 2.2ms (RM3545), 18 ms (RM3544)
- Resolution: 0.01 μΩ (RM3545), 1 μΩ (RM3544)

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
BATTERY IMPEDANCE METER

BT4560

Determine Li-ion Battery Reliability in Just 10 Seconds

- Low-frequency AC-IR measurement to manage reaction resistance
- Evaluate cell output characteristics with AC-IR measurement as an alternative to 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 / BT3564

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 1000V (BT3564) or 300V (BT3563) or 80V (BT3562)
- Large (low-resistance) cell testing
- Choice of high speed PC interfaces for full remote operation
- Handler interface (external I/O)

BATTERY TESTER

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
- Increased measurement efficiency thanks to new compact, lightweight probes
- Store up to 6000 data in built-in memory and transfer to PC via USB/Bluetooth*
- Real-time tracking and report creation on GENNECT cross app via Bluetooth*
  *for BT3554-01 & BT3554-11
IMPULSE WINDING TESTER ST4030A
Diagnose the Insulation Quality and Deterioration of Rotor Windings while in Assembled State via Response Waveform Quantification

- Identify previously undetectable defects
- Detect waveforms with high precision (200 MHz high speed sampling x high 12-bit resolution)
- Identify single-fault turns via quantification of response waveforms
- Diagnose defective insulation (pseudo-shorts) between motor windings by testing for microscopic partial discharges hidden in noise (option)
- Applied output voltage up to 4200 V

Detect hard to identify shorts among even just a few turns

**Conventional approach**
Area comparison based on waveforms

**New approach**
Quantification of response waveforms

![Diagram comparing conventional vs. new approach](image-url)
SAFETY TESTERS

SAFETY TESTERS

SAFETY TESTERS

SAFETY TESTERS

SAFETY TESTERS

SAFETY TESTERS

SAFETY TESTERS

SAFETY TESTERS

LEAK CURRENT HITESTER

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), IEC60950-1, IEC 60335-1, IEC 60065 (ST5540, 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

INSULATION TESTER

ST5520

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

- 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)

AUTOMATIC INSULATION / WITHSTANDING HITESTER

3153 / 3174

AC/DC Hi-Pot Tester (Electrical Safety Test)

- 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 3153 connectable with dedicated scanner Model 3930
INSULATION TESTER
IR4053
- 5 test ranges from 50 V / 100 MΩ to 1000 V / 4000 MΩ
- 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.)
- EN61557 compliant

INSULATION TESTER
IR3455
- Measure insulation of high-voltage equipment (such as transformers, cables, and motors)
- Wide testing voltage range, up to 5.00 kV from 250 V DC
- Wide measurement insulation range, up to 10 TΩ
- PI (Polarization Index) and DAR (Dielectric Absorption Ratio) automatically calculated / display
- Data memory function to reduce handwritten notes
- Bright LED luminous scale
- Extended operating temperature range of -10 ℃ to 50 ℃

INSULATION TESTER
IR4056 / IR4057
- 5 ranges from 50 V / 100 MΩ to 1000 V / 4000 MΩ
- 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)

INSULATION TESTER
IR4053
- 5 ranges from 50 V / 100 MΩ to 1000 V / 4000 MΩ
- CAT III 600V / EN61557 compliant
- Non-short-circuit measurement method
- High resolution display
- EN61557 compliant

INSULATION TESTER
IR4056 / IR4057
- 5 test ranges from 50 V / 100 MΩ to 1000 V / 4000 MΩ
- CAT III 600V / EN61557 compliant
- Non-short-circuit measurement method
- High speed display
- EN61557 compliant

ANALOG MΩ HiTESTER
3490
- 3 ranges from 250 V / 100 MΩ to 1000 V / 4000 MΩ
- CAT III 600V / EN61557 compliant
- Convenient integrated case (including test leads)
- AC voltage measurement

ANALOG MΩ HiTESTER
3490
- 3 ranges from 250 V / 100 MΩ to 1000 V / 4000 MΩ
- CAT III 600V / EN61557 compliant
- Convenient integrated case (including test leads)
- AC voltage measurement
AC CLAMP METER
3280-10F/-20F
- Pocket AC clamp meter with optional flexible clamp sensor attachment
- 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)

AC CLAMP METER
CM3289
- New redesigned sensor for even easier clamping
- Expanded -25 °C to 65 °C operating temperature range
- Measure even harmonic waveform components using the True RMS method
- Connect the CT6280 flexible sensor to measure up to 4199 A in thick or paired wires

AC CLAMP METER
CM4141 / CM4142
- Easily get into tight spaces between cables thanks to thin sensor with a minimum cross-section of 11 mm
- Measure up to 2000 A AC
- Expanded -25 °C to 65 °C operating temperature range
- Bluetooth® function to display data in real time and create reports (CM4142)

AC/DC CLAMP METER
CM4375 / CM4376
- Easily get into tight spaces between cables thanks to thin sensor structure
- Measure up to 1000 A
- Automatic AC/DC function helps boost work efficiency
- Simultaneously measure inrush current in RMS and crest values
- Expanded -25 °C to 65 °C operating temperature range
- 3-year guarantee
- Bluetooth® function to display waveforms in real time and create reports (CM4376) on mobile devices

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

AC CLAMP POWER METER
CM3286
- Display four parameters simultaneously
- A handheld power meter that measures from 5 W of power and 60 mA of current
- Measure power ranging from 5 W at a low current of 60 mA to 360 kW
- In addition to current, voltage, and power, measure simple integral power consumption and phase sequence
- Features and functions deliver fast and efficient testing
- Bluetooth® function for live tracking to a tablet or smartphone (CM3286-01)
**DIGITAL PHASE DETECTOR**

**PD3259**
- Non-metallic contact voltage detection and testing
- Simply clip onto wire insulation
- Phase detection check and line-to-line voltage inspection at the same time
- Easy and intuitive phase detection check with backlight and buzzer

**PHASE DETECTOR**

**PD3129**
- Simply clip clamps onto wire insulation
- Green LED arrow clearly shows phase direction, perfect for visual reports
- Rotating LED indicator shows the phase sequence for a 3-phase power supply at a glance
- Intermittent beeps signal positive phase; continuous tone signals reverse phase

**LUX METERS / BYPASS DIODE TESTER**

**LUX METER**

**FT3424 / FT3425**
- Compatible with LED lighting
- Complies with DIN 5032-7:1985 class B and JIS C 1609-1:2006 general AA class
- Timer hold function lets you make measurements in remote locations while avoiding the effects of shadows and reflections

**BYPASS DIODE TESTER**

**FT4310**
- Inspect solar panel diodes for open and short-circuit faults even in broad daylight
- Built-in wireless Bluetooth® technology to transfer data and create reports live
- Save time - measure all electrical parameters simultaneously*
  *Open-circuit voltage, Short-circuit current, Bypass route resistance
DIGITAL MULTIMETERS

**DIGITAL MULTIMETER**
**DT422X**
- Premier Pocket DMM with CAT IV 300V/ CAT III 600V Safety

**DIGITAL MULTIMETER**
**DT425X**
- Standard DMM that Delivers Top Safety and Reliability - General Purpose Testers with Rich Measurement Functions

**DIGITAL MULTIMETER**
**DT428X**
- World’s Premier Digital Multimeter. Superior Accuracy and High Response, Topped with Safety Terminal Shutters

EARTH 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

**ANALOG EARTH TESTER**
**FT3151**
- Three-electrode method, Two-electrode method
- Wide measurement range for 0 to 1150 Ω, based on EN standard
- Switchable measurement frequency to reduce the effects of power supply harmonics
- Dramatically faster setup. Comes with improved grounding rods and cord winders