

**INTEGRATED  
SERVICES**

[www.isc4esaindia.com](http://www.isc4esaindia.com)

## **INTEGRATED SERVICES & CONSULTANCY**

**Experienced, Reliable and Resourceful TMI Solution Provider**



**AC Sources, DC Power Supplies, DAQs, AC/DC E-Loads**

**Battery Meters, Multi-function Programmable DSOs**

**Bi-Directional Regenerative Power Supplies**

**Hot Air Stations, Protocol Analyzers, Electrical Safety Testers**

**Spectrum Analysers, Logic Analyzers, MSOs**

**Soldering Stations, Power Quality Analyzer**

**EVSE Testers, Battery Testers, Stereo Microscopes**

**EMC/EMI Pre-Compliance, LCR Meters**

**Grid Simulator, Thermal Imager, BGA Rework Station**

**Integrated Services and Consultancy (ISC)**, an ESA Group Company, is a leading provider of electronic test and measuring instruments since 1993. ISC, a premier distributor partner of Good Will Instrument, GW INSTEK, has been providing high precision electrical Test & Measuring Instruments with optimal TCO - Total Cost of Ownership. Our testing solutions help engineers expertly keep pace with disruption and succeed with innovation in fast growing sectors as in Automotive, IIoT, Semiconductor, Power and many others.

### DC POWER SUPPLIES

 <p><b>GSM-20H10</b> Precision source measure unit 4 quadrant operation of 210V/±1.05A/22W</p>	 <p><b>PSW-Multi Series</b> Dual-channel/Triple-channel programmable switching DC power supply</p>	 <p><b>GPP-3060/6030/3650</b> Triple-Channel Programmable DC Power Supply</p>	 <p><b>PSU-Series</b> Programmable Switching DC Power Supply</p>
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### GDS - 3000A Series

650/350MHz 2/4 Channel DSO, 16 Channel Logic Analyzer

One Oscilloscope with Time Domain, Frequency Domain and Power Measurement

*Sample Rate: 5GSa/s; Memory Depth: 200Mpts/CH*



**MADE TO MEASURE:** GWINSTEK high performance test solutions includes over 300 products across five keylines—Oscilloscopes, Spectrum Analyzers, Signal Sources, AC / DC Power Supplies, DC Electronic Loads, Digital Multimeters, LCR Meters, Safety Testers, Other Meters, and Accessories.

 <p><b>GPT-15000 Series</b> AC/DC/IR/GB Intelligent Safety Analyzer Analyze Your Safety Tests</p>	 <p><b>LCR-8200 Series</b> High-Frequency LCR Meter The Smarter Way to Characterize Component</p>	 <p><b>AEL-5000/PEL-5000 Series</b> Programmable AC/DC Electronic Load High Current Capacity with High Resolution</p>	 <p><b>ASR-3000 Series</b> High Performance Programmable AC/DC Power source</p>
 <p><b>MFG-2000 Series</b> Multi-Channel Function Generator</p>	 <p><b>GLC 10000</b> Leakage Current Tester</p>	 <p><b>GDM-906X Series</b> Dual Measurement Multimeter Measurement Explores—Insight and Efficiency</p>	 <p><b>GPM-8330/8320</b> Digital Power Meter Industrial Three-Phase AC Power Measurement</p>

**LATEST PRODUCTS****RBS Series**  
Battery Meter

Max. Voltage 2250 V, Max. Output current: 510 A,  
Max. Output Power 15 kW  
10 units in parallel with a power capacity of 150kW

**ASR-6000 Series**  
High Performance AC/DC Power Source

ASR-6000 Series AC/DC 4.5kVA/KW to 24kV/KW  
Single/Three Phase, 10 Perfect Output Modes  
Dual Current Convergence

**PSW-Multi Series**  
two-channel/three-channel  
programmable switching DC power supply

720W Dual channel and 1080W Triple channel,  
Multiple Voltage Combination (30V/40V/80V/160V)

**AEL-5000/PEL-5000 Series**  
Programmable AC/DC Electronic Load

Built-in tests for Battery Discharge,  
BMS, Short circuit, OCP, OPP test modes

**PHU-Series**  
Multi-range High power DC Source

Voltage Output: 80V/200V/500V/750V/1000V/1500V  
Power Output : 5kW/10kW/15kW  
Maximum Current Output : 510A

**MPO-2000 Series**  
Multi-function Programmable Oscilloscope

DSO, Spectrum analyzer, Arbitrary waveform generator  
Digital multimeter, DC power supply



Power (kW)	12kW	25kW	37kW
Voltage (V)	Maximum Current (A)		
600	50	100	150
1500	-	50	50
2000	-	50	50

\*Global pricing for base units without options, Incoterms Ex Works (EXW) San Diego, California, USA.

## High Performance, Modular Bidirectional, Regenerative Programmable DC Power System

- Full DC source and sink capabilities with power levels from 12 kW up to 37 kW
- Fully scalable up to 1.2 MW with parallel systems
- Available voltage ranges of 600V, 1,500V and 2,000VDC in a 4U rack chassis providing full power up to +/-150A within a single system.

The Mi-BEAM Series is designed for testing today's complex, high power electronics for the automotive, energy storage, industrial, and aerospace markets in a variety of applications. This platform covers all test needs through the product life cycle from advance research and development (R&D), to design validation, and production test requirements.



## High Performance Programmable AC / DC Power Source



### Asterion AC Series Advanced Features

- High power density in 1U / 2U / 4U / 14U chassis up to 18kVA
- Auto paralleling for higher power
- Voltage: 0-400VAC/0- 500VDC, Current: 0-60Arms/phase, Power: 500VA - 36000VA
- Complete avionic test suites (optional)
- Standard LXI LAN, USB and RS232, optional GPIB

### Asterion AC Series Advanced Features

- Commercial and military avionics test
- AC power simulation
- Frequency & voltage conversion
- IEC standards testing

## High Performance Solar Array Simulation Power Supply

- ▶ 2 independent, isolated 600W channels or 1 1200W channel in 1U
- ▶ Voltage: 40 V to 220 V
- ▶ Current: 2.72A to 20A
- ▶ 2μ second shunt switching recovery
- ▶ Peak Power Tracking
- ▶ Primary and secondary over voltage and over current
- ▶ Output electronic circuit breaker
- ▶ Built in fault data recorder
- ▶ Power On Self-Test
- ▶ Active power factor correction (PFC)
- ▶ Color touch panel monitoring
- ▶ Standard LAN interface
- ▶ Full remote control via AMETEK SAS software or SCPI commands



Example of a fully integrated Solar Array Simulator

30 channel  
600W/ch  
18KW total



## SEQUOIA SERIES

California Instruments™

### PRECISION PROGRAMMABLE REGENERATIVE GRID SIMULATORS FEATURES AND CAPABILITIES

- ▶ 0 - 333VAC, 0 - 3000A / PHASE 15KVA - 1.08MVA
- ▶ Single Solution for: AC/DC Programmable Power Source, AC/DC Grid Simulator, AC/DC Resistive or Complex Electronic Load
- ▶ Dual Voltage ranges that support over voltage testing on 480V based systems
- ▶ 500uS time resolution for Transients
- ▶ Virtual Panels control software included
- ▶ Non-Linear current waveform programming during Load mode
- ▶ Phase coordination among multiple units (LKM/LKS)
- ▶ Powerful set of analog controls for PHIL and Modulation tests
- ▶ Trigger In & Out to permit extensive coordination with external systems
- ▶ Extensive Onboard diagnostics
- ▶ Digital I/O, including RS232, USB, Ethernet (GPIB optional)
- ▶ Auto-paralleling for maximum flexibility with multi-chassis configurations

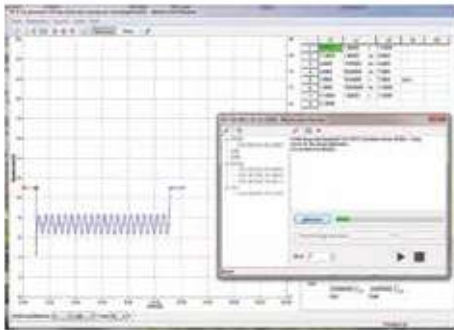


## DC and Arbitrary Power Supplies Arbitrary & Function Generators 4-Quadrant and Broadband Amplifiers Special Instruments

### Comprehensive Test Bench For Automotive Testing

TOELLNER offers flexible solutions for on-board network simulation and testing of components, e.g. for the automotive and avionics industries. The Software WaveControl provides waveforms and controls the TOELLNER system components at the test station, which can be individually tailored to your requirements. Using a DAQ-Card, any signal waveform can be provided with Arbitrary Power Supplies or 4-Quadrant Amplifiers with outputs from 160 W to 5200 W. For fast interruptions, TOELLNER offers electronic switches with switching times below 500 ns.

**WaveControl Software includes a comprehensive library of waveforms supporting these standardized automotive industry tests:**



The Software WaveControl provides

- ✓ Extensive Waveform Libraries for Normative Tests, e.g.
  - LV 124, LV 148
  - VDA 320
  - VW 80000-1
  - VW 82148
  - GMW 3172
  - MBN 10615
  - ISO 16750-2
  - BMW GS 95024-2-1
  - BMW GS 95026
- ✓ Import & Export of recorded Data
- ✓ Visual Generation of individual Waveforms
- ✓ Sequence Controlling and Timing

- Electronic Switch for short interruptions up to 60V / 100A; tr / tf < 500 ns
- 4-Quadrant-Power-Supply up to  $\pm 100$  V /  $\pm 40$ A; > 100 kHz, 320W / 1kW, modularly expandable up to 6,4 kW / 20 kW
- Arbitrary Power Supply up to 100 V / 320 A, AC-superimposition up to 70 kHz, 320 W / 1 kW up to 5.2 kW / 16 kW
- Software to create arbitrary waveforms, an extensive library of normative waveforms included
- All instruments can also be used individually



## Arbitrary 4-Quadrant Voltage and Current Amplifiers

### Electric Vehicle Test Systems

BOLAB Systems provides unique solutions for electrical tests both for LV and HV standards.

- Low voltage Test Systems For 12, 24 and 48V electrical systems addressing LV 124, VW 80000, VDA 320, ISO 16750, GMW 3172.
- High voltage Test systems for electric vehicles with up to 1,500V electrical systems standards addressing LV 123, VW 80300, ISO 21498, MBN 11123, ISO 7637-4

For testing to these standards, a high voltage power supply, a 4-Quadrant Amplifier System and an Artificial Network are the main elements. All these components are part of BOLAB's portfolio.

### WaveMaster Software

BOLAB WaveMaster Software allows to generate analog signals for the power supplies and 4-Quadrant Amplifiers as well as for recording data for both voltage and current measurements.

### LV 123/VW 80300 Test Systems

- ✓ 15 KW - 200 KW systems
- ✓ 15A ... 1500 A
- ✓ Ripple Generator DC ... 500kHz Including Load Dump tests!
- ✓ Automated Tests
- ✓ Prepared for future waveforms due to individual waveform design graphically and tabular
- ✓ Integration via DLL's into programming languages

### LV 124/LV 148/VDA 320 Test Systems

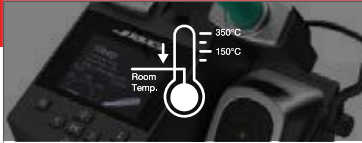
- ✓ 500 W - 18.000 W systems
- ✓ 15 A ... 660 A
- ✓ Up to 100 V /  $\mu\epsilon$
- ✓ Starting with 1 kW, modularly extendable up to 18 kW
- ✓ Automated Tests
- ✓ Additional hardware components for E-16, E-18, E-19, E-20, E-21, E-22





## HEATING SYSTEM

JBC provides the Most Efficient Soldering System which leads to quality improvement & an efficiency increase.



## HEAT MANAGEMENT

Thanks to both Sleep & Hibernation Modes, tip life increase exponentially.

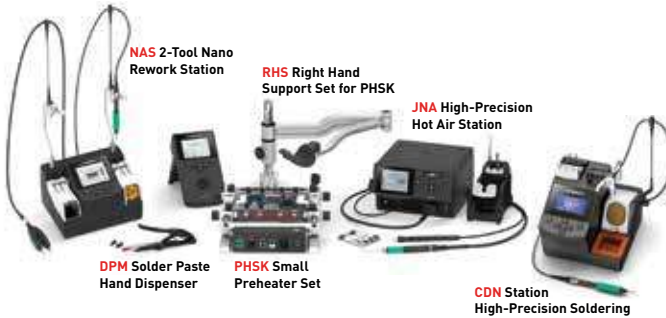


## INCREASE PRODUCTIVITY

Use Quick Cartridge Extractor to change quickly & safely without switching the station off.

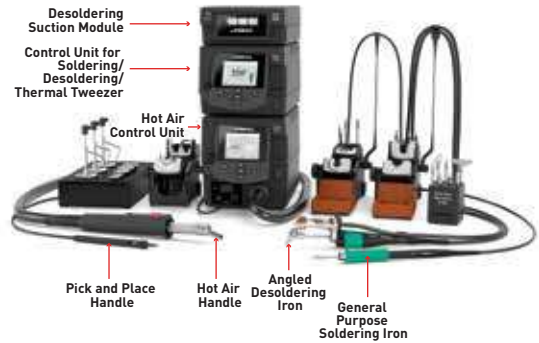
High Precision

## NANO REWORK SOLUTIONS



High Power

## RMSD COMPLETE REWORK STATION



### SMD Rework System

The ideal solution for your entire rework tasks. Includes Hot Air Station, Preheater with PCB Support, and Rework Arm.

### JBC Preheater Range

For rework on multi-layered PCBAs and/or large ground planes in order to avoid thermal shock and facilitate soldering as well as desoldering processes.

### ADJUSTABLE TWEEZERS RANGE

Provide the highest precision when soldering or reworking SMD components.



Preheaters



Fume Extractors



Tip Cleaners



Auto Feeder



Wire Stripper



Automation

## PDR- PIONEERS OF FOCUSED IR TECHNOLOGY

### BGA/SMD Rework Station

PDR designs, manufactures and distributes IR Rework Stations and Industrial X-Ray Inspection Systems for the electronics component and PCB assembly industry. PDR IR Rework Stations have become the benchmark for SMT BGA rework, loaded with the features designed for unmatched precision and high efficiency.

At the forefront of SMD rework technologies, PDR are working with many of the world's top names in:

- Electronic Manufacturing
- Defence
- Medical
- Automotive
- Research & Development



### PDR IR-Q3

#### SEMI-AUTOMATIC ASSISTED REWORK

- Advanced Focused IR component heating
- Automatic Component Removal and Placement
- Quartz IR PCB preheating with 3 zones
- 2" Split Beam prism system for simultaneous PCB/component viewing
- Precision Components Pick and Placement up to 5um
- Precision PCB handling
- Component Nest/Flux Application Facility
- Closed Loop Non-Contact Temperature Sensing
- Advanced Automatic Thermal Process Control
- Reflow Process Observation Camera
- PCB Forced Air Cooling

### FOCUSED INFRARED

What you see you heat.  
No collateral damage.  
Instantaneous control.



### PLACEMENT TECHNOLOGY

Our placement technology  
allows every operator to achieve  
the same standard of quality.



### INTELLIGENT SOFTWARE

One profile to rework nearly all  
applications.





# EVSE Testing Solutions

BIS Standards Compliance



## Sonel BT-120

Battery tester

► **Application**  
Diagnostics of battery packs or battery cells the life of electric cars.



## Sonel MPI-540

The MPI series comprises multifunctional electrical parameter meters designed for checking domestic and industrial system



## Sonel EVSE-100

Multifunctional Analyser for AC Vehicle Charging Stations

### ► BIS Standards Compliance

- Simulation of Charging Modes, Communication, PP Cable Parameters and CP Circuit Faults
- BIS and IEC standards, including IS 17017-1, IS 17017-2-2, IEC 61851-1, and IEC 62196



## EVSE-01 Adapter

The adapter for the MPI series meters allows measurements of AC charging stations with a type 2 connector, with a socket and a fixed charging cable. Tests are available for 1-and 3-phase stations—both with and without ventilation



## PQM Series-PQM 750

Advanced meters for monitoring voltage stability, harmonics, and power disturbances in electrical grids and EV charging stations

### ► BIS Standards Compliance

- IS 17017-21:2019-Defines power quality requirements for EV charging stations
- IS 13234-1992 - Covers power quality and harmonic limits in electrical networks
- IEC 61000-4-30-Used for power quality measurements (Class A & Class S devices)



## MIC-15K1

Insulation Quality Analyzer Insulation resistance measurement ensuring safety in EV chargers, transformers, and switchgear

### ► BIS Standards Compliance

- IS 2993:1998-Covers insulation resistance testers' specifications
- IS 7322019-Electrical wiring regulations, including insulation resistance requirements
- IS 9000 (Part 3, Section 5) Covers insulation resistance tests for electrical components

# Measurement Instruments

## Electrical Diagnostics and Safety Testing

Sonel Instruments specializes in providing measuring instruments and equipment primarily for electrical testing, including insulation testers, multimeters, earth resistance testers, and power quality analyzers. These instruments are essential for evaluating the electrical systems in vehicles, ensuring they are functioning correctly and safely.

**MULTI-FUNCTION METER**



**INSULATION RESISTANCE METER**



**EARTH RESISTANCE & RESISTIVITY METERS**



**POWER QUALITY ANALYZER**



**FAULT LOOP IMPEDANCE METER**



**RCD METER**



**PAT - TESTER**



**MICRO OHM METER**



**THERMAL IMAGER CAMERA**



**CORONA CAMERA**



**CABLE LOCATORS**



**PHOTOVOLTAIC METERS**



**VOLTAGE & PHASE ROTATION TESTER**



**MULTIMETER & CLAMP METER**



**LUX-METER**



**HIPOT / VLF**



# OPTICAL INSPECTION SYSTEMS

## Eyepiece-less Stereo 3D Microscopes

### OPTA



3 - 15x  
Magnification



5MP image quality



Long working distance



Ergonomic position



3D view



Overlay & Image comparison



Import, export settings



Glasses free



Outstanding image quality



3D illumination

### MANTIS



Ergonomic Working

Digital Image Capture

### LYNX EVO



2.7 - 240x  
Magnification

Easy Viewing

HD Image Capture



360 viewer



WiFi



focus stacking



high precision stage

# DIGITAL INSPECTION SYSTEMS

## 2D Digital Inspection Systems

### EVO Cam HALO



0.8x - 192x Magnification  
Auto lens ID  
Auto focus  
Auto Measurement & Analytics  
360 viewer compatible

### EVO CAM II



0.8 - 750x Magnification

### EVO CAM ICON



Large Field of View

PC control option

# DIGITAL INSPECTION SYSTEMS

## 3D Digital Inspection Systems

### DRV-Z1



6.1 - 93x Magnification

Easy 3D Digital View

Share Live 3D View

### ProteQ VISO



7.1x - 314x Magnification

Glasses-Free 3D Stereo View

Share Live 3D View



## MSO3124V Mixed Signal Oscilloscope

MSO3000 Mixed Signal Oscilloscope

- DSO: 4 Channels, 1 GS/s S/R, 200 MHz bandwidth
  - Logic / Protocol Analyzer: 16 Channels, 2 GS/s Timing Analysis, 250 MHz State Analysis
  - Data Logger (HDD / SSD Storage)
  - Total Memory: 4 Gb
  - Digital Voltmeter: 3 digits
  - Frequency Counter: 5 digits
- 6-in-1 Instruments: DAQ, DSO, DVM, Frequency Counter, Logic Analyzer, Protocol Analyzer



## LA4136B Logic Analyzer

LA4000 Logic Analyzer

- 136 channels
- 4GHz Timing Analysis / 400MHz State Analysis
- 32Gb Memory
- Logic, State and Protocol triggers
- Stackable with a DSO to form an MSO

Ideal for applications requiring high-speed timing analysis or dealing with complex state analysis



## BF7264 Pro Protocol Analyzer

BusFinder Protocol Analyzer

- Real-time data display, post-capture waveform
- Trigger for commands or data
- 64 channels Logic Analyzer
- 32Gb total memory Protocol Analyzer
- Protocol Option: eDP1.4a, eMMC 5.1, MIPI D-PHY 1.2, NAND Flash, SD 3.0(SDIO 3.0), SD 4.1 (UHS-II), SGMII, UFS2.1



## TS3124V DSO

TravelScope DSO

- Record length: 128Mpts/ch
- Channel: 4
- Sample rate: 1 GS/s
- Bandwidth: 200 MHz
- Data Logger (HDD / SSD Storage)
- Digital Voltmeter: 3 digits
- Frequency Counter: 5 digits

## PROTOCOL ANALYZER

BiSS-C	CAN2.0B/CAN FD	I2S	LIN2.2	PMBus	Profibus	SMBus	SPI
DALI	DP_Aux	MDIO	MII	PWM	RGMI	SVID	UART (RS232)
eSPI	HID over I2C	MIPI I3C 1.1	MIPI RFFE 3	RMII	RS-232	USB PD 3	USB1.1
I2C		Modbus		RS-482			

## ETHERNET

10BASE-T1S, MII/RMII/RGMII/GMII/SGMII



- Runs battery pack endurance tests
- Includes 18 independent and isolated charge / discharge channels
- Extendable number of channels
- Each channel can run the CV, CC, CR and CP charging and discharging tests
  - Adjustable voltage output from 0V to 7V with a resolution of 1mV
  - Current sourcing capability of 1A
  - Controlled electrical load adjustable from 4 Ω to 7k Ω per channel
  - Includes high precision voltage and current measurement loggers

**BATTERY CYCLER**



- Battery Cell Simulator Rack scales to 256 Channels/Isolated Cells
- 180 Cells Rack Mount with a 10\*18 Cell Modules for BMS Testing
- Adjustable output V per cell - 0 V to 7 V with 1.0 mV precision
- NTC and Fault simulation tests also with short circuit, open circuit and reverse voltage fault tests
- V/I Measurements for each cell
  - V with a precision of 0.4 mV
  - High I with a precision of 1 mA
  - Low I with a precision of 5 uA
- Controllable by CAN ISO 11898-2, Ethernet TCP and USB-C

**Battery Cell Simulation Rack**



- Supports the complete BMS Validation Process - DV, PV, LTT and EOL FCT
- Automotive Load Box designed for BMS Testing without complex wiring setup
- Offers CAN, LIN, Analog inputs, Digital I/O channels, Counters, PWM for BMS/CSC Signals
- Simulates the specific signals for BMS with fault simulation
- Monitors and measures specific BMS signals

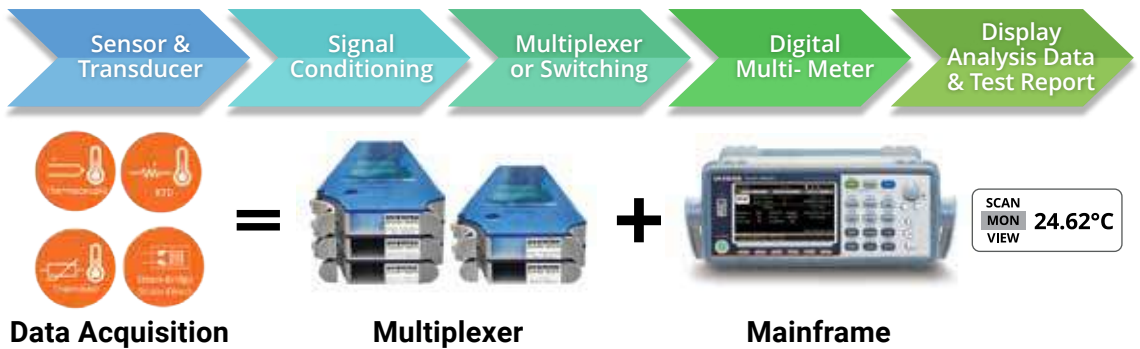
**BMS Load Box**

# GWInstek Data Acquisition Systems



**FEATURES**

- Large 4.3" TFT color display
- 3-slot mainframes with built-in 6 ½ digit DMM
- Basic 0.0035% DCV accuracy
- 5 selectable switch modules
- Up to DC 600V / AC 400V voltage measurement (DAQ-909 module)
- Up to 450 channel/s scan rate
- Up to 100 kilo points internal memory
- Measures and converts 14 different input signals:
  - Temperature with thermocouple, RTDs and thermistor; dc/ac volts; 2- and 4-wire resistance; frequency and period; dc/ac current and capacitance; direct strain and bridge strain
- USB storage support to copy/log data in standalone operation
- Interface: Digit I/O, LAN, USB host/device and mini GPIB(optional)



<b>Range</b>	-200 °C to 1820 °C	-200 °C to 600 °C	80 °C to 150 °C	100mV to 300V	100mV to 600V	100µA to 2A	1µA to 24
<b>Resolution</b>	0.002 °C to 0.01 °C	0.002 °C	0.01 °C	0.1µV to 1mV	0.1µV to 1mV	1000A to 1µA	1PA to 1µA
<b>Accuracy</b>	0.2 °C	0.06 °C	0.01 °C	0.05%	0.0035%	0.10%	0.05%

<b>Range</b>	100 Ω to 1000 MΩ	100 Ω to 1000 MΩ	1nF to 100µF	3Hz to 300kHz	
<b>Resolution</b>	0.1 m2 to 1000 Ω	0.1 mo to 1000 Ω	0.0001nF to 0.01µF		
<b>Accuracy</b>	0.01%	0.01%	2%		



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**Soldering & BGA Rework Solutions, Dielectric Withstand Testing**  
**Battery/Cell Simulation, Battery Testing (Charge/Discharge)**  
**Battery Internal Resistance & Battery Health Monitoring, BMS Testing**  
**Electric Power Train Testing, LV 123 , LV 124/LV 148, ISO 16750-2**  
**EMC EMI Pre Compliance Testing**  
**Solar Power Simulation & Invertor Testing, Fuel Cell Testing**  
**AC Grid Simulation, AC/DC Charging Station & OBC Testing**  
**Power Quality Testing, Electrical Safety Testing, Thermal Imaging**  
**CAN/CAN FD, 10 Base T1-S, I2C, RS-232/485, Modbus, Profibus, SMBus**  
**Data Logging & Analysis, Optical & Digital Inspection**

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