

Automotive Testing Solution

Cars, Motorcycles, Bus, Truck



HIOKI



- MR8875 Wave Recorder (for Engine, Clutch & Transmission, ECU/CAN)
- LR8400-20 Data Logger (for Powertrain Test Bench & Running Tests)
- 3390 Power Analyzer (for Motor Control: Electric & Hybrid Electric Vehicles)
- PW3198 Power Quality Analyzer (for Production Plants: Power Quality & Energy Saving Solutions)



Powertrain and Road Tests

MEMORY RECORDER: MR8875

Powertrain Tests: Engine, Clutch and Transmission Engine: Temperature, Pressure, Strain (Metallic Distortion), Rotation

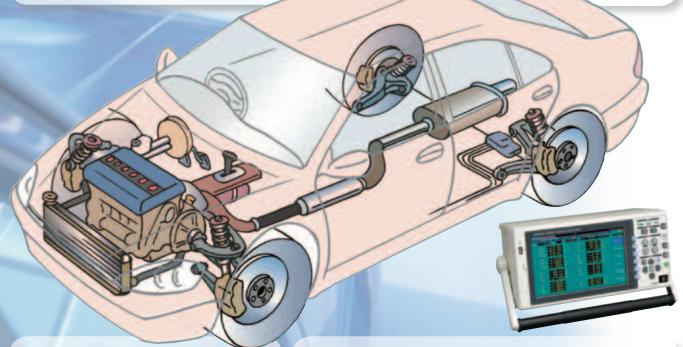
Test Bench, Chassis Dynamo Tests and Road tests CAN (Controller Area Network) Data Recording



MEMORY RECORDER: MR8847-01/02/03

ECU (Engine Control Unit), Electrical Components
Brake, Damper and Shock Absorber
Power Window, Starter Motor and Alternator
Fuel refueling (Flow rate, Electronic Control Logic Timing)





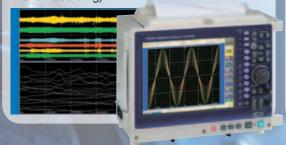
MEMORY RECORDER:8860-50, 8861-50

EV/PHV/FC (Electric Vehicle, Plug-in Hybrid Vehicle, Fuel Cell CAR)

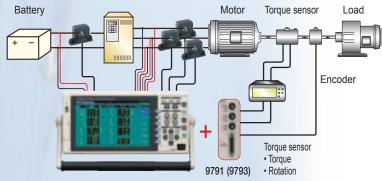
AT Car (Automatic Transmission), Electronic Control Logic Timing

ABS (Anti-lock brake system)

Ignition Coil & Distributor (Voltage & Current Wave Recording)



POWER Analyzer: 3390/3390-10



EV/PHV (Electric Vehicles, Plug-in Hybrids, Fuel Cell Cars)

Motor Performance Test (V/A/W/Torque/ Rotation)

Inverter Performance Test (V/A/W and Effects=Output Power/Input Power)

Electrical Components & Production plants

DATA LOGGER: LR8400 Series

Powertrain Tests (Engine, Clutch and Transmission) Test Bench, Chassis Dynamo Test and Road tests Temperature, Pressure, Strain (Metallic Distortion),

Long-term Recording of Slow Phenomena

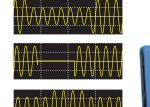
POWER OUALITY ANALYZER: PW3198

Production plants and processes

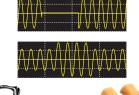
Observe power malfunctions

Monitor for voltage swells and dips, transient over-voltages and interruptions

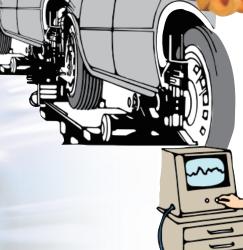
Harmonics to the 50th order, inrush current, waveform recording











BATTERY TESTER: 3554/BT3563

Batteries (Lead-Acid Battery, Ni-cd Battery, Lithium ion Battery, Fuel cell) Internal resistance measurement (1kHz-AC) Measure the deterioration state of batteries with the 3554 (lead-acid batteries only)



LCR Meter: IM3570

Parts inspections (electronic components and functional parts) Shipment Checks (resistance, capacitance, inductance and impedance)

Mechanical component inspections (harnesses, relavs, switches, etc.) Fuel Cell Performance Tests: Cole-Cole Plot















Memory Recorders



/LAN/ /USB_{2.0}/

MEMORY HICORDER MR8875

16ch (ANALOG) + 8ch (Logic) 500k Sampling/s, CAN support Touch screen operation



/USB_{2.0}/

/USB_{2.0}/

/LAN/

/RS-232C/

GP-IB/

True RMS

MEMORY HICORDER MR8880-20

4ch (Analog) + logic 8ch 1 M Sampling/s, (All channels isolated) Optional printer



/LAN/ /USB_{2.0}/

MEMORY HICORDER MR8847-01/02/03

16ch (Analog) + 16ch (Logic) 20M Sampling/s Built-in printer



/LAN/ /USB_{2.0}/

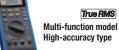
MEMORY HICORDER 8860-50

16ch (Analog) + 16ch (Logic) Scanner Unit 64ch 20M-Sampling/s

Clamp Meter **Multi Meter**



DIGITAL MULTIMETER DT4282



60.000 count display DC+AC voltage, Frequency counter Capacitance, Temperature measurement

Data Loggers



LR8400 Series

/LAN/ /USB.

/LAN/

/USB_{2.0}/

RS-232C/

True RMS

MEMORY HILOGGER

30ch to 60ch isolated input DC voltage/ Temperature, Thermocouple or Platinum sensor/ Humidity/ Cumulative pulses

Measure inverter equipment and analyze motors

Power Analyzers

POWER ANALYZER

4ch/ Clamp input

3390

MEMORY HILOGGER LR8431-20

10 ch isolated input DC voltage/ Temperature with Thermocouple or Cumulative pulses/ Rotation measurement

200/ 2000 A range DC/ AC/ AC+DC mode Peak value at inrush current



/LAN/ /USB_{2.0}/ **∕RS-232C** True RMS

Power Quality Analyzers





POWER METER PW3337 series

3 ch input, DC, or 1P2W to 3P3W, or 3P4W 1000 V, 65 A max. input, DC or 0.1 Hz to 100 kHz ±0.1% basic accuracy Harmonic measurement up to 50th order

POWER QUALITY ANALYZER PW3198

Class A Power Quality Analyzer Monitor and record the quality of power 3 phase 4-wire + additional input (AC/DC 1ch) (Clamp input)

POWER QUALITY ANALYZER 3197

Monitor and record the quality of power Single phase 2-wire to 3 phase 4-wire (Clamp input) Compact & lightweight

Environmental Measuring Instruments



DC, or Single-phase to 3-phase 4-wire

Wide-band DC. 0.5Hz to 150kHz

/RS-232C/ True RMS

CLAMP ON POWER HITESTER 3169-20/21

Designed for 50/60 Hz commercial line use Save demand value to the PC card continually (Model 3169-21: with D/A output)

2002 Class2

IEC 61672-1

/USB_{2.0}/

SOUND LEVEL METER FT3432

Simple operation-no range switching needed Compact, lightweight design 30dB to 130dB, Analog output

INFRARED THERMO HITESTER 3419-20

Surface temperature measurement type Ø125mm at a 1m distance -35.0 °C to 500.0 °C (Laser marker)



TACHO HITESTER FT3405/ FT3406

500mm non-contact detection distance 0.5 r/sec to 99990 r/min Drop proof (1m onto concrete surface)

Component Testing Instruments



ANALYZER IM3570

/LAN/ /USB₂,/ GP-IB/

∕RS-232C/

|Z|, L, C, R testing, Measuring time: 0.5 msec Testing source frequency: 4 Hz to 5 MHz (Measure LCR and conduct frequency sweeps simultaneously)

HIOKI E.E. CORPORATION



RESISTANCE METER

RM3548

Basic accuracy: 0.02%, Max. resolution: 0.1 $\mu\Omega$, Measure from 0.0 $\mu\Omega$ (testing current 1 A) to 3.5 $M\Omega$ Easily record up to 1,000 data points in memory

Battery Testers



BT3562/ BT3563

√GP-IB/ BT3562-01 BT3563-01

∕RS-232C BATTERY HITESTER

The Perfect Battery Tester Testing source AC 1kHz Battery Packs up to 300V (BT3563) Finest resolution $0.1\mu\Omega$ and $10\mu V$



BATTERY HITESTER 3554

For check battery deterioration Testing source AC 1kHz Finest resolution $1\mu\Omega$

HEADQUARTERS

81 Koizumi, Ueda, Nagano, 386-1192, Japan TEL +81-268-28-0562 FAX +81-268-28-0568 http://www.hioki.com/E-mail: os-com@hioki.co.jp

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www.nubicom.co.kr

서울특별시 영등포구 경인로 775(문래동 3가, 에이스하이테크시티 3동 201호) TEL: 070-7872-0701 FAX: 02-2167-3801 E-mail: sales@nubicom.co.kr

대전사무소

대전광역시 유성구 대덕대로 593(도룡동 386-2) 대덕테크비즈센터 203호 TEL: 070-7872-0712 FAX: 042-863-2023 E-mail: inyeom@nubicom.co,kr