

All Made in Japan

**High
Quality**

HIOKI

Measuring Instruments for the Automotive Market

Cars, Motorcycles, Bus and Truck

Wave Recorder MR8875

(for Engine, Clutch & Transmission, ECU/CAN)

Data Logger LR8400-20

(for Powertrain Test Bench & Running Tests)

Power Analyzer 3390

(for Motor Control: Electric & Hybrid Electric Vehicles)

Power Quality Analyzer PW3198

(for Production plants: Power Quality & Energy Saving Solutions)



ISO 9001
JMI-0216



ISO 14001
JQA-E-90091



www.hioki.com

HIOKI company overview, new products, environmental considerations and other information are available on our website.

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



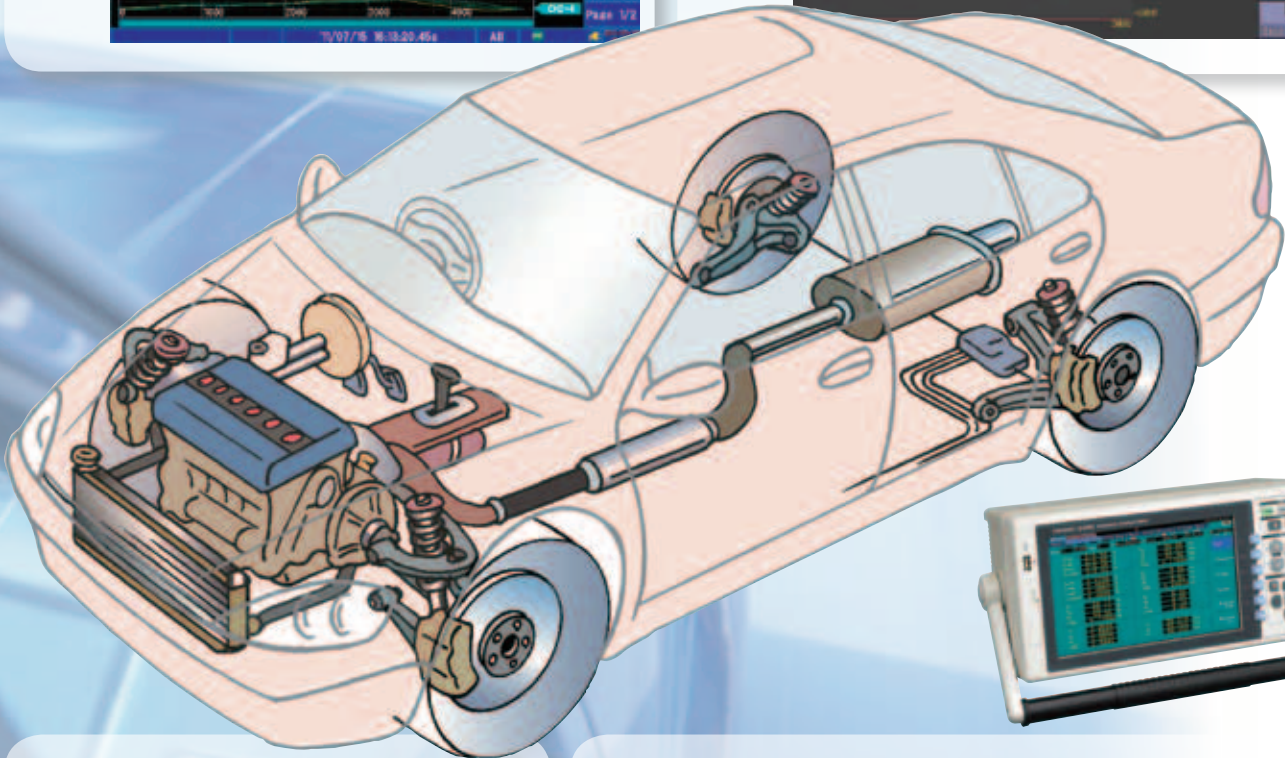
MEMORY RECORDER: MR8847-01/02/03

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)



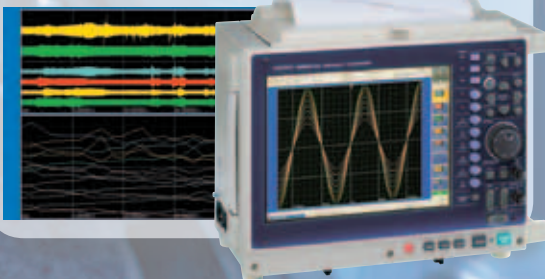
MEMORY RECORDER: 8860-50, 8861-50

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

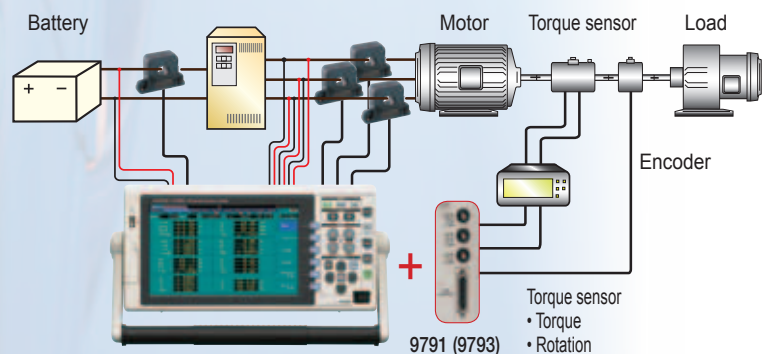
AT Car (Automatic Transmission), Electronic Control Logic Timing

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)

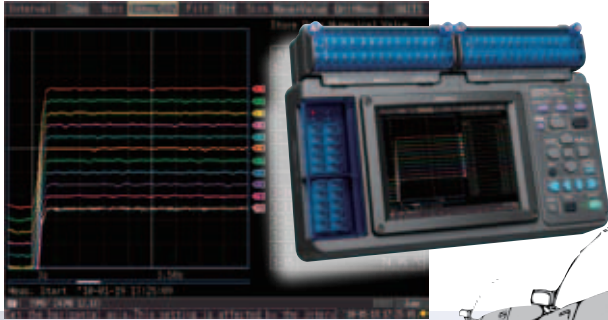
Motor Performance Test (V/A/W/Torque/ Rotation)

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

Electrical Components & Production plants

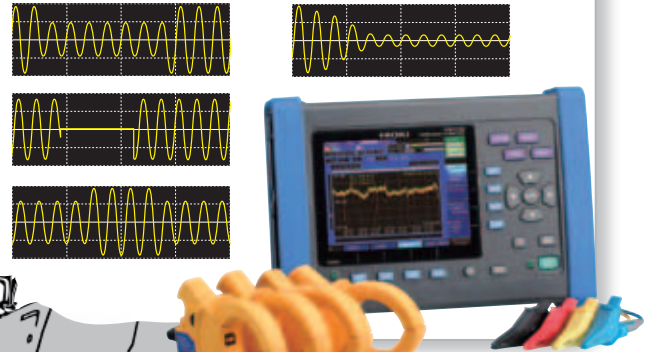
DATA LOGGER: LR8400 Series

Powertrain Tests (Engine, Clutch and Transmission)
Test Bench, Chassis Dynamo Test and Road tests
Temperature, Pressure, Strain (Metallic Distortion),
Rotation
Long-term Recording of Slow Phenomena



POWER QUALITY 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, relays, switches, etc.)
Fuel Cell Performance Tests: Cole-Cole Plot



Memory Recorders



**MEMORY HiCORDER
MR8875**

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



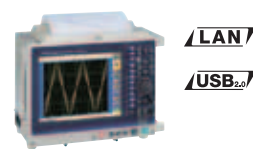
**MEMORY HiCORDER
MR8880-20**

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



**MEMORY HiCORDER
MR8847-01/02/03**

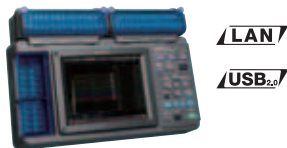
16ch (Analog) + 16ch (Logic)
20M Sampling/s
Built-in printer



**MEMORY HiCORDER
8860-50**

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

Data Loggers



**MEMORY HiLOGGER
LR8400 Series**

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



**MEMORY HiLOGGER
LR8431-20**

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

Clamp Meter



**CLAMP ON AC/DC
HiTESTER 3285**

True RMS
For AC/DC measurement

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

Multi Meter

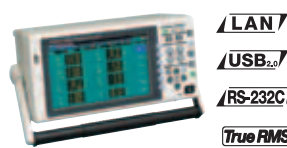


**DIGITAL MULTIMETER
DT4282**

True RMS
Multi-function model
High-accuracy type

60,000 count display
DC+AC voltage, Frequency counter
Capacitance, Temperature measurement

Power Analyzers



**POWER ANALYZER
3390**

Measure inverter equipment and analyze motors
4ch/ Clamp input
DC, or Single-phase to 3-phase 4-wire
Wide-band DC, 0.5Hz to 150kHz



**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 Analyzers



**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



**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)



**SOUND LEVEL METER
FT3432**

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



**INFRARED THERMO
HiTESTER 3419-20**

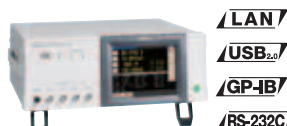
Surface temperature measurement type
Ø125mm at a 1m distance
-35.0 °C to 500.0 °C (Laser marker)



**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



**IMPEDANCE
ANALYZER IM3570**

[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)



**RESISTANCE METER
RM3548**

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



**BATTERY HiTESTER
BT3562/ BT3563**

The Perfect Battery Tester
Testing source AC 1kHz
Battery Packs up to 300V (BT3563)
Finest resolution 0.1µΩ and 10µV



**BATTERY HiTESTER
3554**

For check battery deterioration
Testing source AC 1kHz
Finest resolution 1µΩ

Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.

HIOKI

HIOKI E. E. CORPORATION

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

HIOKI USA CORPORATION:

TEL +1-609-409-9109 FAX +1-609-409-9108
http://www.hiokiusa.com / E-mail: hioki@hiokiusa.com

HIOKI (Shanghai) SALES & TRADING CO., LTD.:

TEL +86-21-63910090 FAX +86-21-63910360
http://www.hioki.cn / E-mail: info@hioki.com.cn

HIOKI INDIA PRIVATE LIMITED:

TEL +91-124-6590210 FAX +91-124-6460113
E-mail: hioki@hioki.in

HIOKI SINGAPORE PTE. LTD.:

TEL +65-6634-7677 FAX +65-6634-7477
E-mail: info-sg@hioki.com.sg

HIOKI KOREA CO., LTD.:

TEL +82-42-936-1281 FAX +82-42-936-1284
E-mail: info-kr@hioki.co.jp

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