



# ANALOG UNIT MR8905

For Memory HiCorder MR8875

Recorders



## 1000 V Input in a Multi-channel Logger



Input cords are not included. Please purchase two L4940 Connection Cable Sets and two L4940 Alligator Clip Sets.

### ■ Introducing a high-voltage analog unit designed to expand the measurement range of your MR8875

Simply plug the MR8905 into the MR8875 Memory HiCorder to accommodate a broader range of applications requiring direct input in CAT III (600 V) and CAT II (1000 V) environments.

Measurement target	Optional input module	Measurement range	Resolution
Voltage	<b>New!</b> Analog Unit MR8905	10 V f.s. to 1000 V f.s. Observe instantaneous and RMS waveforms	400 $\mu$ V
	Analog Unit MR8901	100 mV f.s. to 200 V f.s.	4 $\mu$ V
Voltage	Voltage/Temp Unit MR8902	10 mV f.s. to 100 V f.s.	0.5 $\mu$ V
	Strain Unit MR8903	1 mV f.s. to 20 mV f.s.	0.04 $\mu$ V
Current	Analog Unit MR8901 + Clamp on current sensor	Depends on current sensor(s) in use * Certain current sensors require a separate power supply	1/1250 div
RMS AC voltage	Analog Unit MR8901 + Differential Probe 9322	100 V rms to 1 kV rms	1/1250 div
Temperature (Thermocouple)	Voltage/Temp Unit MR8902	200 °C f.s. to 2000 °C f.s. * Upper and lower limit values depend on the thermocouple in use	0.01 °C
Distortion, Stress	Strain Unit MR8903	400 $\mu$ e to 20,000 $\mu$ e f.s.	0.016 $\mu$ e
Analyze CAN signal	CAN Unit MR8904	2 ports /unit *Up to 15 ch each equivalent to a 16-bit analog signal *Up to 16 ch each equivalent to a 1-bit logic signal	n/a
Relay contacts, voltage on/off	Logic Probe 9320-01	Depends on logic probe(s) in use * Max. input 50 V, Threshold +1.4/ +2.5/ +4.0 V * Contact Short/ Open, non voltage	n/a
AC/DC voltage on/off	Logic Probe MR9321-01	Depends on logic probe(s) in use * Up to 250 V AC/DC, Detect live or not live	n/a



ISO 9001  
JMI-0216



ISO 14001  
JQA-E-90091



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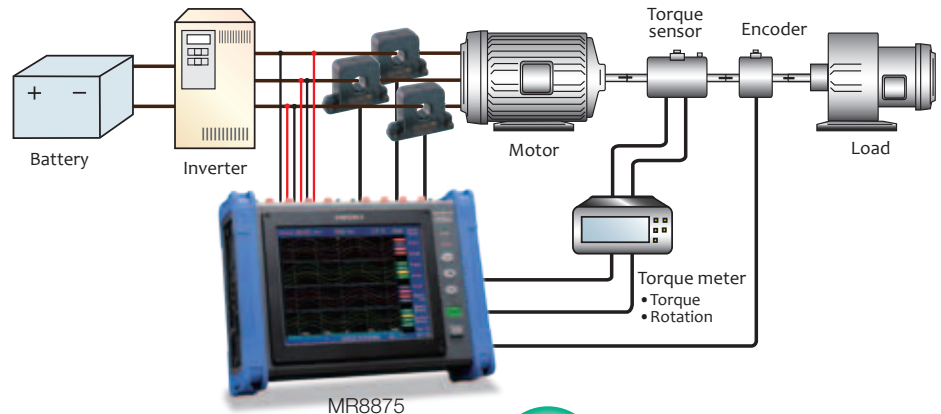
HIOKI company overview, new products, environmental considerations and other information are available on our website.

# Applications

## Testing of ECUs and EV inverters and motors

Measure inverter output waveforms

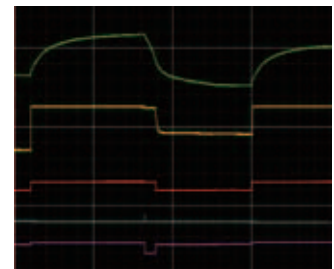
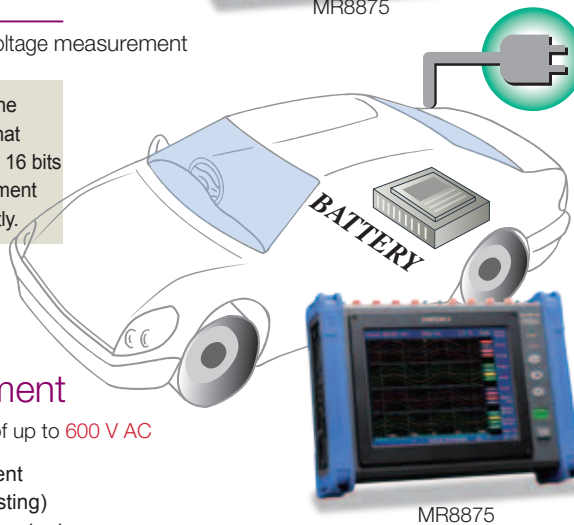
With the MR8905, the MR8875 can simultaneously measure three channels of analog high-voltage waveforms, three channels of analog low-voltage waveforms, and three channels of current (sensor output) waveforms.



## Testing of EV batteries

Support for high-voltage/high-resolution voltage measurement

With the MR8905, the MR8875 can measure the voltage of individual battery cells—a process that requires high precision and high resolution—at 16 bits of resolution (1/1,250 of the range). The instrument can measure signals of up to 1000 V DC directly.

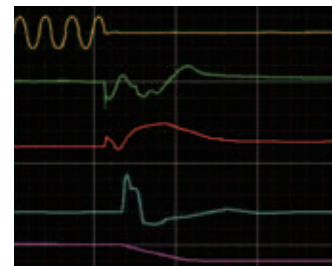


• Battery evaluation  
(Example of control signal and charge/discharge time measurement)

## Testing of power equipment

Support for RMS measurement of signals of up to 600 V AC

- Characteristics testing of power equipment (Load rejection testing, circuit breaker testing)
- Three-phase voltage/current and sensor output
- Measurement of circuit breaker on/off status



• Load rejection testing

Analyze the correlations among factors such as the generator voltage before and after circuit-breaker operation, degree of variability in RPM, governor servo operating status, and pressure regulator operation timing.

## Multi-channel timing measurement with logic probes

The MR8875 ships standard with eight channels\* of logic input that are independent of its analog inputs. This capability makes the instrument ideal for use in multichannel timing measurement.

\*Up to two logic probes with four channels of input each can be connected.



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