ΗΙΟΚΙ

DATA LOGGER LR8101, LR8102 Power & Temperature Measurement Solution

NEW

Power & Temperature

Measure Power & Temperature Together, in Real-Time



Scalability and versatility : 3000 CH for temperature (thermocouple), 120 CH for power High-accuracy power measurement : AC/DC ±(0.02% rdg. + 0.05% of range) High voltage measurement : guaranteed accuracy at DC 1500 V High speed : data update interval of 5 ms

Extensive high-accuracy current sensors : clamp and pass-through type, up to 2000 A



Industrial Machinery

Reducing Power Consumption

Large industrial machines, such as CNC machining equipment with multiple motors and drive components, require accurate monitoring of each system's power consumption to reduce the overall energy use. The LR8101 and LR8102 data loggers can measure multiple power lines simultaneously and at high speed, providing valuable data for power reduction.

Solution by Industry



HVAC Equipment

Evaluating Heat-Exchanger Performance

In assessing the performance of HVAC (Heating, Ventilation, and Air Conditioning) equipment such as heat pumps and chillers, it is crucial to determine the heat conversion efficiency by simultaneously recording driving power and temperatures at various points within the device's piping. Hioki offers measurement modules that meet the need for simultaneous power and multi-point temperature measurements.



E-Mobility

Prototype Validation

Real-time analysis of battery pack charge/ discharge tests and powertrain evaluations requires the ability to collect and output large amounts of data quickly. The LR8102 data logger provides real-time data output through UDP and CAN to meet these needs.



Key benefits A Data Logger for Test Benches and HIL (Hardware In the Loop) system



System Integration Made Easy

Measure Power and Temperature with an All-in-One Unit

The logger simultaneously records and outputs vast amounts of power/temperature data, eliminating the need for integration data by the test bench and HIL system.



Capturing Core-Performance Data

High-Speed Data Update

With a rapid data update interval of 5 ms, the data logger (M7100) captures sudden power fluctuations and abnormal temperature rises in real-time.

