

LR8431 - MEMORY HiLOGGER

Featuring USB Flash Drive and Improved Accuracy! Your Personal 10-channel Logger.

Rating: Not Rated Yet
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Manufacturer[Hioki](#)

Description

Overview

Hioki Memory HiLoggers are high-speed data loggers for recording multiple channels of voltage, temperature, pulse or rotation signals, providing complete isolation between channels and strong noise resistance . The LR8431 logs data at 10ms speeds across 10 channels simultaneously, and features a bright color LCD for crystal clear waveform displays.

Key Features

- Record measurement data on a USB flash drive for easy transfer to a computer
- Record to reliable Compact Flash cards during long-term measurement applications for increased peace of mind
- Replace storage media during real-time recording
- Improved thermocouple measurement accuracy and reference junction compensation accuracy
- Ten isolated analog input channels
- 10 ms sampling and recording across all channels
- Noise-resistant measurement circuitry for improved readings
- Ultra-compact for convenient portability
- Widescreen, bright LCD gives excellent viewability

Specification:

Number of channels	Analog: 10 isolated channels using scanning input method (M3 mm dia. screw terminal block) Pulse: 4 channels (All pulse inputs share common ground with the main unit)
Measurement parameters	Voltage : ± 100 mV to ± 60 V, 1-5V f.s. 6 ranges, Max. resolution 5 μ V Temperature (thermocouples) : -200 $^{\circ}$ C to 1800 $^{\circ}$ C (depend on the sensor), 1 range (K, J, E, T, N, R, S, B), Max. resolution 0.1 $^{\circ}$ C Temperature (Pt 100 sensor) : not available Humidity : not available Totalized pulses : 0 to 1000M pulse, 1 range (No-voltage 'a' contact,

	open collector or voltage input), Max. resolution 1 pulse Rotation count : 0 to 5000/n (r/s) f.s. 1 range (No-voltage 'a' contact, open collector or voltage input), Resolution 1/n (r/s) Note: n = pulses per rotation (1 to 1,000)
Max. allowable input	DC 60 V (Analog input), DC -5 V to 10 V (Pulse input)
Max. rated voltage to earth	AC 30 Vrms, DC 60 V (Upper limit voltage that does not cause damage when applied between input channel and chassis, and between each input channels)
Recording intervals	10 ms to 1 hour, 19 selections (All input channels are scanned within each recording interval.)
Selectable filters	50 Hz, 60 Hz, or OFF (digital filtering of high frequencies on analog channels)
Memory capacity	Internal storage: 3.5 M-words, External storage: CF card or USB memory stick (only the HIOKI CF card is guaranteed for correct operation)
External interface	USB 2.0 mini-B receptacle ×1; Functions: Control from a PC, Transfers files from the installed CF card to a PC (cannot transfer files from the connected USB memory stick to a PC via USB communication), Data copy between CF card and USB memory stick
Display	4.3-inch WQVGA-TFT color LCD (480 × 272 dots)
Functions	Save data to the CF card or USB memory stick in real time, Numerical Calculations, etc.
Power supply	AC adapter Z1005: 100 to 240 VAC (50/60 Hz) Battery pack 9780: Continuous use 2.5 hours 12 V DC supply: 10 to 16 V (please contact HIOKI distributor for cable; less than 3 m/9.84 ft cable length)
Dimensions and mass	176 mm (6.93 in) W × 101 mm (3.98 in) H × 41 mm (1.61 in) D, 550 g (19.4 oz) (Battery pack 9780 not installed)
Accessories	Measurement Guide ×1, CD-R (Instruction manual PDF, Logger Utility Instruction Manual PDF, Data acquisition application program Logger Utility) ×1, USB cable ×1, AC adapter Z1005 ×1