

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 °C to 1800 °C (depend on the sensor), 1 range (K, J, E, T, N, R, S, B), Max. resolution 0.1 °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 x1; 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 x 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 x 101 mm (3.98 in) H x 41 mm (1.61 in) D, 550 g (19.4 oz) (Battery pack 9780 not installed)
Accessories	Measurement Guide x1, CD-R (Instruction manual PDF, Logger Utility Instruction Manual PDF, Data acquisition application program Logger Utility) x1, USB cable x1, AC adapter Z1005 x1