

DL-6 Data Logger

FEATURING ADVANCED VIBRATING-WIRE TECHNOLOGY

SPECIFICATIONS #E127

One Data Logger, Countless Applications.

The **DL-6** measurement and control datalogger is our first multipurpose datalogger capable of doing static vibrating-wire measurements. Designed to be a powerful core component for your data-acquisition system, the DL-6 offers a wide variety of features including improved analog input accuracy

and resolution, faster communications and low power requirements. The DL-6 also introduces our new universal (U) terminal—an ingenious way for allowing virtually any sensor (analog, digital, or smart) to be connected to any U terminal.

But that's just the beginning of what the DL6 data logger has to offer:



Save money and space with the DL-6's integrated Ethernet port.



Eliminate wiring headaches through the removable terminal blocks.



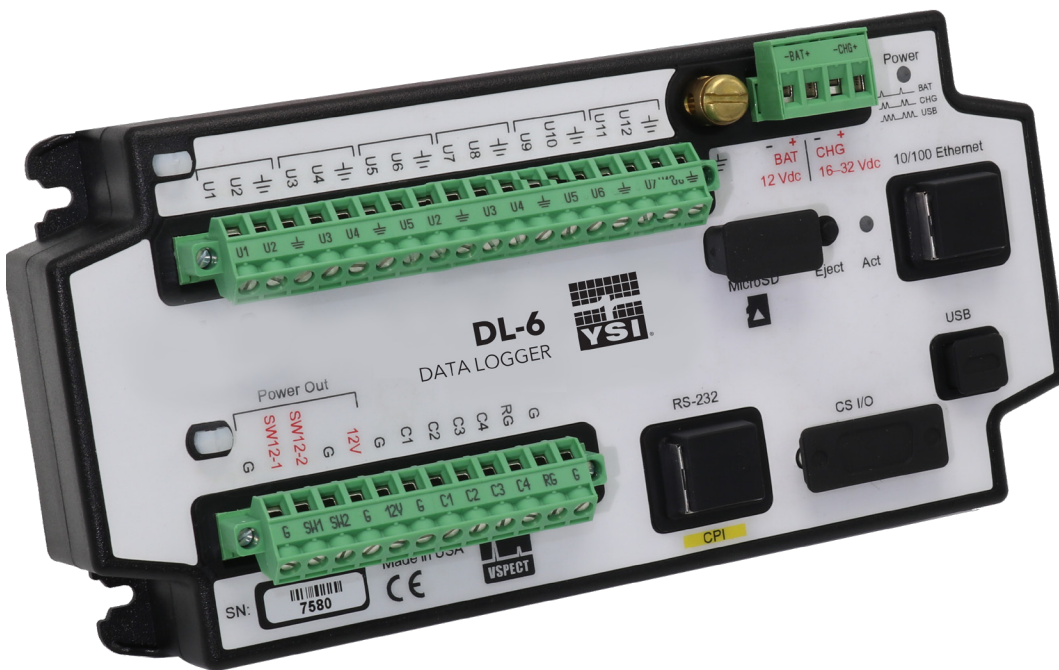
Setup easily with PC software, USB, and ethernet connectivity. The DL-6 Series is internet ready.



Ease your mind with knowledge of the integral surge and ESD protection.



Perform automated monitoring of most hydrological, meteorological, environmental and industrial sensors, on-site or remotely for control and M2M communications.



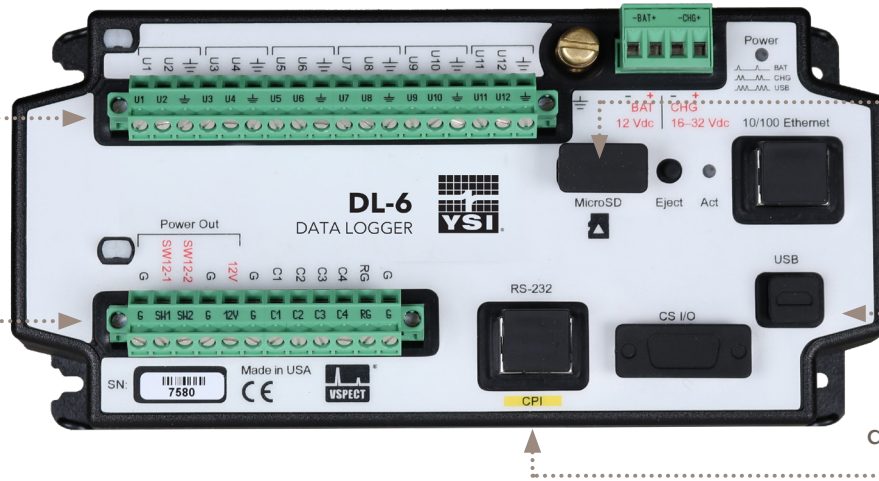
See reverse for specifications

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Additional Features:

Connect to virtually any sensor— analog, digital, or smart using the Universal (U) terminals

Power sensors or communication devices through switched 12 V terminals



Extend memory requirements with the MicroSD card drive

Connect directly to PC with the USB micro B

Host sensors and distributed modules with the onboard CPI port

General Specifications

CPU	32 bit with hardware FPU, running at 100 MHz
Internal Memory	128 MB flash and 4 MB battery-backed SRAM
Clock Accuracy	±3 min per year, optional GPS correction to 10 µs
Connection	USB micro B for direct connection to PC (limited power source during configuration), 2.0 full speed, 12 Mbps RS-232 for connecting RS-232 modems or serial sensors CS I/O Port for connection to modems and displays 10/100 Ethernet RJ45 for LAN connection
Battery	Battery Terminal Pair (-BAT+) for regulated 12 V power input or rechargeable 12 V VRLA for UPS mode
Charge	Charge Terminal Pair for 16 to 32 V from dc power converter or 12 or 24 V solar panel
Universal (U) Terminals	<p>Twelve Universal (U) Terminals are software configurable for analog or digital functions</p> <p>Analog functions consist of:</p> <ul style="list-style-type: none"> Analog inputs: 12 single-ended or 6 differential with ±5000 mV, ±1000 mV, ±200 mV ranges 24 bit ADC Analog outputs: ±2.5 V or ±2.5 mA ranges for bridge measurements 12 bit DAC Static frequency-analyzed vibrating wire: terminal pair both excites to 12 V p-p and 100 Hz to 6.5 kHz and reads vibrating-wire transducers using patented spectral-analysis technology (VSPECTTM) Thermistor: completion resistor internal 5 kΩ Period average: up to 200 kHz, amplitude dependent <p>Digital I/O functions consist of 5 V or 3.3 V logic levels for:</p> <ul style="list-style-type: none"> General status/control Voltage source: 5 V, 3.3 V, 20 mA @ 3.5 V Low level ac: up to 20 kHz, amplitude dependent Switch closure (150 Hz) or high frequency counter (1 MHz) Pulse width modulation Interrupts and timer input SDI-12 and SDM Serial asynchronous communication Tx/Rx pairs
Output	Two switched 12 V terminals for powering sensors or communication devices, 1100 mA @ 20°C; One continuous 12 V terminal
Control C Terminals	Four Control (C) Terminals are software configurable for digital functions Digital I/O functions consist of 5 or 3.3 V logic levels (refer to list under Universal (U) Terminals)
Analog Accuracy	±(0.04% of reading + 2 µV), 0° to 40°C
Effective Resolution	50 nV (±200 mV range, differential measurement, input reversal, 5 Hz f _{N1})
Weight	0.42 kg (0.92 lb)
Dimensions	21 cm x 10.2 x 5.7 cm (8.3 in x 4.0 x 2.2 in)
Operating Temperature Range	Standard: -40° to +70°C Extended: -55° to +85°C (not available for communication options)



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