

## HL-200 HyperLogger™ /Power Supply System

### Features

- Self-contained data logger with power for sensor excitation
- 4 - 24 channel analog or 48 digital inputs
- 150 samples/second
- Alarm outputs included
- Built-in 3.5 - 22Vdc sensor power supply
- Rechargeable batteries
- Simple graphical programming software with built-in plotter
- System Options
  - PV battery charger
  - Cell phone, Ethernet, and
  - RF communication link
- Field expandable I/O is reconfigurable for different data logging tasks



### HyperLogger™ w/Rechargeable Power Supply

The HL-200 is an expanded data logging system consisting of a HyperLogger™ and the RPS-1 Rechargeable Power Supply housed in a rugged NEMA-4X rated enclosure. The HL-200 was designed to meet the needs of remote data logging applications where power is unavailable for excitation of sensors and transmitters. Additionally, the HL-200 is ideal for data collection installations at unattended sites with no available grid power. The HL-200 batteries are readily recharged via photovoltaic, wind or other power sources.

### HyperLogger™ Data Logging System

The HL-200 includes the powerful HyperLogger Portable Data Logger, an assortment of User specified plug-in Interface Modules, the HyperWare™ Windows™ based software, and any additional User specified accessories such as telephone or RF modems, PCMCIA memory cards and others as required by the application. Full details on the HyperLogger, HyperWare™, Interface Modules, and other accessories are available on their respective data sheets.

### Rechargeable Power Supply

Integral to the HL-200 is the RPS-1 Rechargeable Power Supply. Two User programmable power supply outputs are available that source 7 different regulated voltage levels from 3.5 to 22 VDC. For sensor excitation, alarm output power or other application. Outputs are short circuit/over-current protected. The two power supply outputs can be independently programmed for output voltage as well as operational mode. Two modes are available; Continuous ON and Automatic Operation. In Automatic Operation, the power supply is controlled by an optically-isolated low-voltage (5VDC, 0.5mA) control input signal. This control input connects to one of the three HyperLogger™ digital outputs that cycle the power to the field transducers/transmitters under control of the logger program. This cycled power technique maximizes the RPS-1 battery life.

*The Authority in  
 Unrestricted Data  
 Logging*



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### HL-200

The RPS contains two rechargeable gel-cell batteries and recharging circuitry. The charging circuitry will accept low-voltage AC or DC current from photovoltaic arrays, wind generators, utility sourced transformers, or other current sources. The sealed batteries are capable of operating in any orientation and state-of-charge can easily be checked via the front panel state-of-charge, bar-graph display.

The RPS-1 can also be used as a rechargeable power supply for the HyperLogger.

Mechanically housed in a lockable, NEMA-4X enclosure, the HL-200 is designed for long-term remote, temporary portable, and plant floor data collection applications. A large wiring compartment is provided for I/O wiring routing to connections. Wiring access holes are provided in the base with gland type, liquid tight fittings. Batteries are door mounted for easy access. Wall mounting tabs and full installation and operation instructions are included.

### Specifications

**HyperLogger Data Logging Components:** See individual data sheet for details on the HyperLogger, HyperWare™ software, Interface Modules, and accessories.

**Power Supplies:** Two, independent User programmable power supplies.

**Output Voltage:** 3.5, 5, 10, 12, 15, 18, 22 VDC; Dip Switch selectable. Each power supply can be set independently.

**Current Output:** 250 mA maximum per supply, short circuit protected.

**Power Supply Batteries:** Two, rechargeable 1.8AH 12V gel-cells, series (24VDC) or parallel (12VDC) operation. A three position user Switch selects 12VDC, 24VDC, or OFF.

**Charging Circuitry Input Voltage:** 12VDC operation; 14 to 20 VAC/VDC 24VDC operation; 26 to 32 VAC/VDC

**Charging Current:** 150mA maximum, automatic current limit control

**Charging Technique:** Tapering current, fixed voltage; 13.6V in 12 VDC mode, 27.4V in 24 V mode. Input/Output

**Wiring:** 7/16" binding head terminal strips

**Control Signal:** 5 VDC, 0.5mA, optically isolated. High turns ON power supplies in AUTO mode.

**State-of-Charge Indicator:** 10 step bar-graph LED display of relative battery voltage under load. Indicates Low to Full charge.

### Environmental Mechanical Specifications

**Operating Temperature:** -10 to 40C (14 to 104F) for full battery capacity and life, -10 to 60C (14 to 140F) with reduced battery life and capacity.

**Enclosure:** NEMA 3, 4X, and 12 rated enclosure. Hinged Door with lockable latches. Stainless steel hardware. Molded wall mounting flanges.

**Dimensions:** 15.5"W x 17.5"H x 8.0"D

**Weight:** 20 to 30 pounds depending on configuration

**Shock and Vibration:** The HL-200 will withstand the shock and vibration conditions encountered in normal commercial shipping and handling.

**Ordering Information:** Specify HL-200 and desired Interface Modules and accessories. Pricing information is provided on the HyperLogger System Pricing data sheet.

The HL-200 is supplied with HyperWare software, RS-232 cables, DB-9 and DB-25 serial adapters, batteries, 120VAC wall transformer, fittings, and manual.

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Contact Logic Beach for configuration assistance.

4010.10302 8/01