

# HL-200; HyperLogger™ System 200

## Description and Specifications

### Overview

The System 200 is an expanded feature model of the HyperLogger™ portable data logging system. The System 200 consists of a HyperLogger and an RPS-1 Rechargeable Power Supply housed in a NEMA 4x rated enclosure.

The System 200 was designed to meet the needs of remote data logging applications where power is unavailable for excitation of sensors and transmitters. Additionally, the System 200 is ideal for data collection installations at unattended sites with no available grid power. The System 200 batteries are readily recharged via photovoltaic, wind or other power sources.

The RPS-1 provides two programmable voltage, current limited, regulated power supply outputs for sensor excitation, alarm output power, and/or other applications.

### HyperLogger™ Data Logging System

The System 200 includes the powerful HyperLogger Portable Data Logging System Base, an assortment of User specified plug-in Interface Modules, the HyperWare™ Windows™ based software, and any additional User specified accessories such as modems, PCMCIA transportable memory cards and more.

*Full details on the HyperLogger, HyperWare™, Interface Modules, and other accessories are available on their respective data sheets.*

### Rechargeable Power Supply

Integral to the System 200 is the RPS-1 Rechargeable Power Supply. Two User programmable power supply outputs are available which can source seven different regulated voltage levels from 3.5 to 22 VDC. 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 under control of an optically isolated low voltage (5VDC, 0.5mA) control input signal. This control input interfaces directly to any of the three HyperLogger™ digital outputs which can then provide intelligent cycled power to the field transducers/transmitters under control of the HyperLogger Net Program. This cycled power technique maximizes the RPS-1 battery life.

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

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.

### Mechanical

Housed in a lockable, NEMA 4X enclosure, the System 200 is designed for portable, plant floor, and long-term outdoor remote 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 Component:

See individual data sheet for details on the HyperLogger, HyperWare™ software, Interface Modules, and accessories.

### Power Supply Component:

#### 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

#### OPERATING TEMPERATURE:

-10 to 40C (14 to 104 F) 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

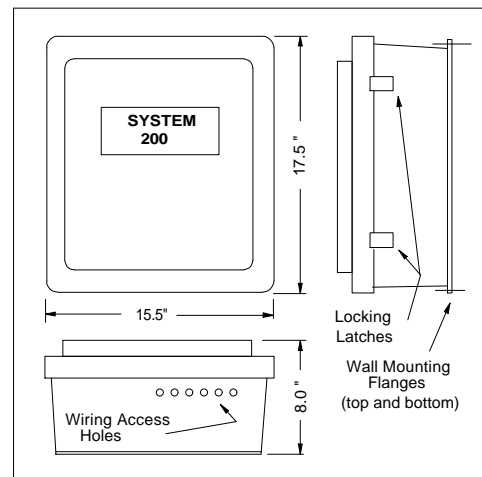
#### SHOCK AND VIBRATION:

The System 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 System 200 is supplied with HyperWare software, RS-232 cables, DB-9 and DB-25 serial adapters, batteries, 120/240VAC wall transformer, fittings, and manual.



System 200 Dimensional Data

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