



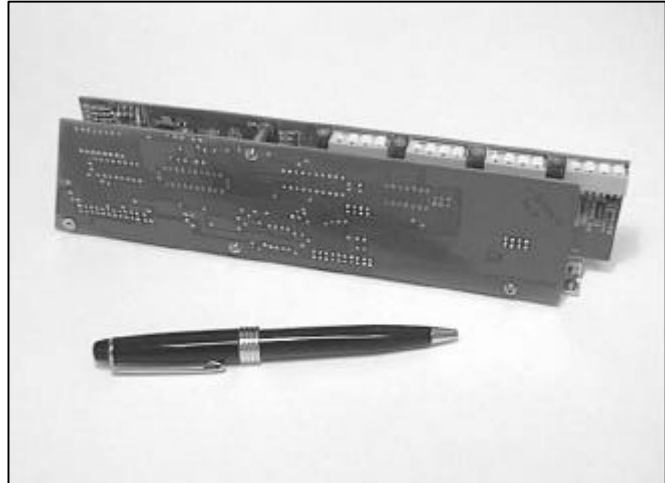
LOGIC BEACH Inc.

HyperLogger™ Serial-Bus Data Logging

HYPERLOGGER SERIAL BUS INTERFACE MODULE

FEATURES

- Collect data from numerous serial bus protocols
- Use with standard analog sensors in conjunction with serial bus data
- Portable, battery or AC operation data logging
- Interface modules are field changeable for different input groups, analog, digital, resistance, serial data
- Plug-in interface modules installs in seconds in HyperLogger
- Flash memory for field updating of Interface Module and new personalities for alternate serial buses
- Simple programming interface through HyperWare™



COLLECT DATA DIRECTLY FROM:

- Truck, automotive, vehicle buses (CAN, SAE)
- Factory Networks / PLCs
- Serial output smart sensors
- Proprietary serial protocols, communications and devices
- Analog & digital signals / sensors
- SDI-12 sensors and systems

The **HyperLogger Data Logger** is a self-contained battery-powered instrument-grade data collection system. Offering 13 bit accuracy, full differential, instrumentation amplified inputs, programmable filtering and capable of accommodating multiple input types the HyperLogger is able to solve your data collection needs. If you work on the plant floor, in vehicle test, lab or remote field studies, the Hyper-Logger can be configured to suit your application. A rugged NEMA-4x enclosure houses the electronics, batteries and wiring terminal strip adapter providing a self-contained environmentally protected instrument.

Interfacing to the Data Logger

Real world signal interface has never been easier. The HyperLogger's expandable design now includes the ability to record data from serial buses and standard sensor outputs. Six ports for plug-in Interface Modules, accepting up to 24 + mixed analog or digital inputs and a number of outputs. Front-end completion circuitry (4-20mA burden resistors and voltage divider), is integral to the Interface Module eliminating sensor input wiring hassles. Interface Modules are available for serial data, Vdc and Adc, t'couple, RTDs, Hz, resistance,

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PCMCIA removable memory cards and 14.4 modem communications.

Logging Serial Data

The HyperLogger configured with the revolutionary HLIM-9 Interface Module, creates a flexible data collection system that logs data from "smart" sensors, PLCs, and a wide range of serial communication protocols -CANbus, MODBUS, and others along with the complete range of conventional analog sensor signals. If the signal is a DC voltage, current, thermocouple, RTD, Hz, resistance or serial network it no longer matters, the HyperLogger is able to record the information. Enhanced communication capabilities have been built in to handle the increasing variety of serial interfaces being introduced to the process industries.

User-Interface with HyperWare™

HyperWare is the graphical computer program that operates the HyperLogger. There are four operating environments that are included with HyperWare: communications, programming, real-time trending and data post-processing. When a new program is initiated the program interrogates the HyperLogger to determine the I/O configuration. The available input and output icons are then displayed in HyperWare for use in the program. Once an HLIM-9 programmable interface module is detected a parameter selection box appears where the user selects the desired bus protocol and available messages on the serial bus to record. The user can select only the data points they wish to read and store to memory.

The HLIM-9 can be field programmed for any of a multitude of 'personalities" compatible for use with the different buses. Different personalities are available from Logic Beach.

Five different software-controllable outputs are available for use as simple control outputs or as alarms. Outputs are relays(2), TTL(2) and 5Vdc (1).

HyperLogger Interface Modules

HLIM-1: Analog Interface Module

Thermocouples: J,K,E,T,R,S

DC Voltage: 11 ranges, +/- 20mV to +/- 30V

DC Current: 7 ranges, +/- 200uA to +/- 22mA

HLIM-2: Digital Interface Module

Frequency: 5Hz to 30kHz (square or sine wave)

Event: Contact closure or TTL, 0-15Vdc

Count: Contact closure or TTL to 20kHz

HLIM-4: Resistance Interface Module

RTD: 100 and 1000 Ohms

Thermistors: 10k Ohm @ 25degrees C

Resistance: 12 ranges, 200ohms to 400K full scale

HLIM-5: Memory / Modem Interface

Module has internal socket for removable memory cards from 60,000 to 600,000 samples with capabilities for internal 14.4 modem.

HLIM-8: Eight Channel Digital Interface

Eight individually user-selectable channels configured as either inputs or outputs.

HLIM-9: Serial Data Interface Module

Field programmable personalities: CANbus, MODBUS, SAE1587, SDI-12, proprietary protocols. Consult factory for others.

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