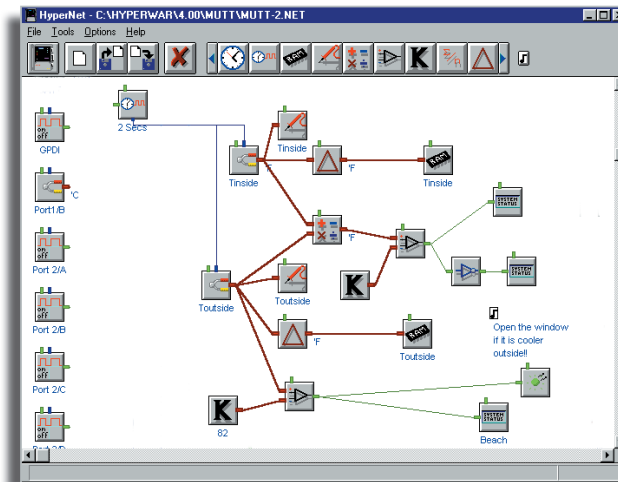


# Hyperware™ Data Logger Software for Windows

## Features

- Program dataloggers with icon drag and drop ease
- Flexible and powerful programming capabilities are easy to learn
- Graphic data plotting with zoom, scaling and \*.bmp output
- Automatic time and date stamped spreadsheet conversion
- Graphic modem, RS-232, Ethernet, and PCMCIA Communications
- Real-time graphic and numeric data trending
- Compatible with HyperLogger™, ModuLogger™, ModuLogger MINI™ dataloggers



Hypernet™ Icon Based Datalogger Programming

## Hyperware™ Overview

HyperWare™ (HW) is a powerful multi-function software package for use with the ModuLogger™, ModuLogger Mini™ and HyperLogger™ Portable Data Logging Systems from Logic Beach. HyperWare facilitates serial, telephone or RF modem, and Ethernet communications, datalogger programming, real-time data trending, logged data graphic display and data export to other applications, all within the Microsoft© Windows™ environment.

### Programming with HyperNet








Within HyperWare is a powerful and flexible programming environment called HyperNet™. In HyperNet, a 'NET' program is developed graphically on a PC using icons and interconnects. This program is then transferred to the datalogger memory where it executes. The datalogger is now ready for stand-alone logging and can be disconnected and enabled for operation from its new NET program.

Through NET programs, simple to complex logging and alarming strategies can be easily configured. After icons are pulled onto the screen, simply add connections with your mouse to indicate desired data flow. In addition to icons representing hardware input and output channels, a full complement of processing icons are provided on the toolbar. These icons can be added to a NET to perform functions such as math, variable sampling rates, setpoint alarming, LCD messaging, average/min/max, conditional logging, totalizing, time based output, intelligent logging, logic, counting, summing, duty-cycle analysis, time integration, and even telephone pager alarms. Armed with this full complement of icons, logging and alarming strategies for just about any User-defined application are quickly and easily implemented.

### Programming the HyperLogger is a simple, yet powerful, three step process.

1. Via a communications connection, the datalogger is queried for its current hardware configuration.
2. Visually develop the NET program by adding processing, alarm, math, etc. icons and interconnecting them to indicate data flow.
3. Transfer the NET program to the datalogger's memory for execution.

### A Sampling of Hypernet Icons...

-  **Math Calculations**...inter-channel calculations, data reduction, units conversion, and much more.
-  **Delta Logging**...log data only when it changes by a User-defined amount.
-  **Pager Alarming**...get paged when something runs amok! High temperatures, low pressures, memory full—any alarm and you get a call.
-  **Time Integrals**...calculate flow volumes, KWH, and more.
-  **Calendar Icon**...schedule logging times and frequencies based on dates, days or time of day.
-  **Setpoint Alarms**...set alarms under-pressure, over temp, full tanks, etc.
-  **Statistical Calculations**...avg, min, max, summation, etc.

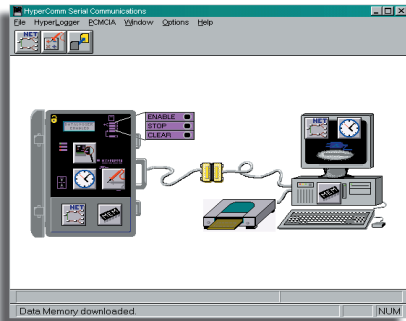
**The Authority in  
Unrestricted Data  
Logging**

# Hyperware™ Data Logger Software for Windows

## Specifications

### Serial Communications

Using HyperWare, communications between the datalogger and a PC for data retrieval, status checks, reprogramming, and real-time data trending are readily handled.



Direct RS-232, telephone modem or Ethernet communications are handled within the visual Communication window. Upon connection, HyperWare automatically recognizes the data-logger model and self configures.

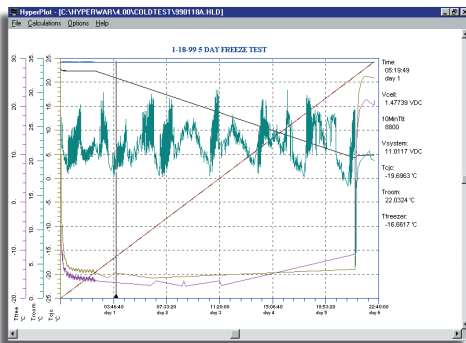
### Drag and Drop Serial Communications

Once the connection is established, communications are performed by simply dragging and dropping icons between the on-screen PC and the datalogger, resulting in transparent communications with 'behind the scene' error checking.

The visual communications implementation allows for quick and simple communications between the PC and a connected datalogger for status, collected data downloads, programming, and remote control.

### HyperWare™ Graphic Data Plotting

HyperWare includes a powerful graphic data plotting tool. After the data has been acquired in the field by the datalogger and downloaded to the PC via the desired communication link, the plotter can be used to graphically plot up to 7 data channels versus time.



Plot Data, Zoom, Label and Scale

Data analysis is enhanced with a Zoom feature and a full spectrum of display options include X and Y-axis scaling and formatting, grids, cursor data

display, symbols, instant min/max/average and integral view analysis, and more.

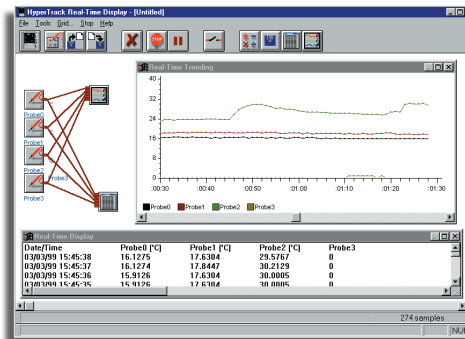
Complying with the Windows standard, plots can be generated from within the HyperWare plotter and can be

## Specifications (continued)

printed directly or saved as \*.BMP files. The \*.BMP plot can be seamlessly integrated into other Windows applications including word processors and spreadsheets, allowing for powerful report generation without associated graphic format conversion hassles.

### HyperTrack™ Real-Time Display

The HyperTrack™ window provides a real-time, scrolling and/or graphic trending display (HyperTrend™) of datalogger collected data on a serially connected PC.



Real-Time Trending

HyperTrack provides immediate data display of User specified nodes within the datalogger NET

program. Hyper-Track is an extremely valuable tool for critical realtime process monitoring as well as serving as a quick method of checking on data-logger I/O values and status.

### Data File Conversion

HyperWare also includes additional post-processing options including collected data conversion to time/date tagged collimated ASCII (text) files and direct output to the Microsoft Excel spreadsheet format. Collected data can be further manipulated during the file conversion process using visually programmed icon networks similar to those employed in HyperNet.

*For Example: two channels of field recorded temperature data contained within the original HyperLogger download file can be merged via a math icon and output to an Excel file format resulting in the original two channels and a third 'delta-T' channel.*

### PC Requirements

Windows 3.1, 95, 98, NT, 2000, XP, 3Meg. Hard Disk Space, CD ROM, serial port.

HyperLogger™, ModuLogger™, MiniLogger™, HyperWare™, HyperNet™, HyperComm™, HyperTrend™ are trademarks of Logic Beach Inc.

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