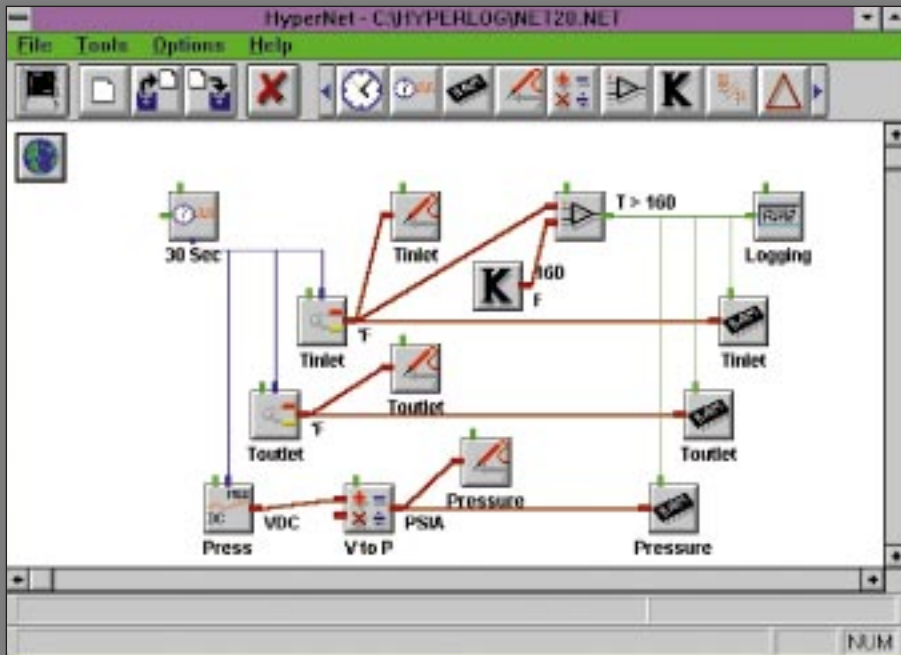


HYPERWARE™

DataLogger Software For Windows



HYPERNET™ ICON BASED DATALOGGER PROGRAMMING

KEY FEATURES

- Compatible with Logic Beach HyperLogger™, MiniLogger™ and ModuLogger™ portable data logging families
- Program dataloggers with icon drag and drop ease
- Graphic data plotting with zoom, scaling and *.bmp output
- Time/Date tagged spreadsheet file conversion
- Real-time graphic and numeric data trending
- Graphic modem, RS-232, and PCMCIA communications

Overview

HyperWare™ is a powerful multi-function software package for use with the Logic Beach MiniLogger™, ModuLogger™, and HyperLogger™ Portable Data Logging Systems. HyperWare facilitates serial 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 unique and powerful logger programming environment called HyperNet™. In HyperNet, a 'Net' program is developed graphically on the PC using icons and interconnects. This program is then transferred to the datalogger memory. The datalogger is then 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 is 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 can be quickly and easily implemented.

Programming the datalogger is a simple (but powerful) three step process.

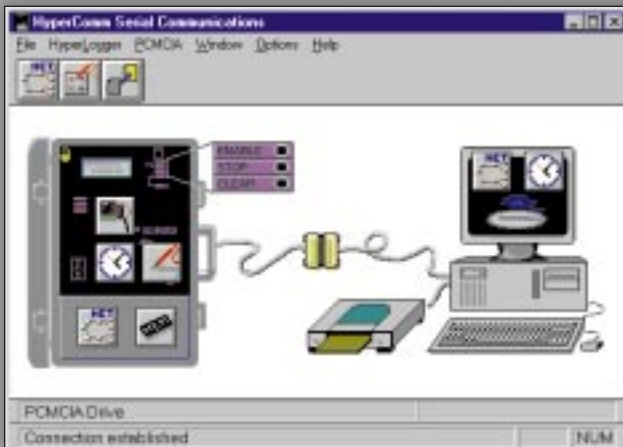
- 1 Via a serial connection (modem or RS-232), query the datalogger for its current hardware configuration (installed input and output channels).
- 2 Visually develop the graphic Net program by adding processing, alarm, math, etc. icons and interconnecting them to indicate data flow.
- 3 Transfer the Net program to the datalogger's memory where it executes.

A Sampling of HyperNet Icons...

-  **Math calculations...** inter-channel calcs, 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
-  **Setpoint Alarms...** set alarms for under-pressure, over-temperature, full tanks, etc
-  **Statistical calculations...** average, min, max, summation, etc.

Other Icon Examples...





DRAG AND DROP SERIAL COMMUNICATIONS

Serial Communications

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

Direct RS-232 and telephone modem communications are handled within the visual Communication window. Upon connection, HyperWare automatically recognizes the datalogger model and self-configures. Communications are then simply performed by dragging icons back and forth between the on-screen PC and datalogger graphics.

For example, to download data from the datalogger memory to a file on the PC, merely click on the Memory Icon overlaying the datalogger graphic, then drag it over the PC graphic and release it... the data transfer begins.

Additionally, PCMCIA memory card configuration, data downloads, and net uploads are graphically supported.

HYPERPLOT™ Graphic Data Plotting

HyperWare includes a powerful graphic data plotting tool called HyperPlot™. After the data has been acquired in the field by the datalogger and downloaded to the PC via modem or RS-232 link, HyperPlot is used to graphically plot up to 7 data channels versus time. Data analysis is enhanced with mouse stroke Zooming and a full spectrum of display options including 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 generated from within HyperPlot can be printed directly or saved as *.BMP files (Windows Bit Map file format). 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.

HyperTrack provides immediate data display of User specified nodes within the datalogger NET program. HyperTrack is an extremely valuable tool for critical real-time process monitoring as well as serving as a quick method of checking on datalogger I/O values and status.

Data File Conversion

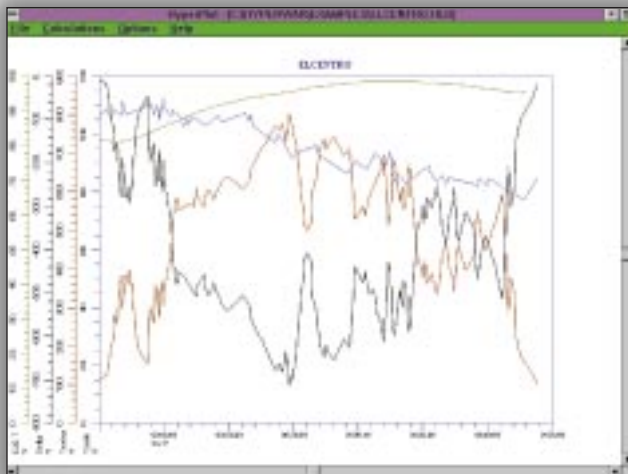
HyperWare also includes additional post-processing options including collected data conversion to time/date tagged columnated ASCII (text) files and direct output to the Microsoft Excel spreadsheet format. Additionally, collected data can be further manipulated during the file conversion process using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

For Example: two channels of field recorded temperature data contained within the original datalogger 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.

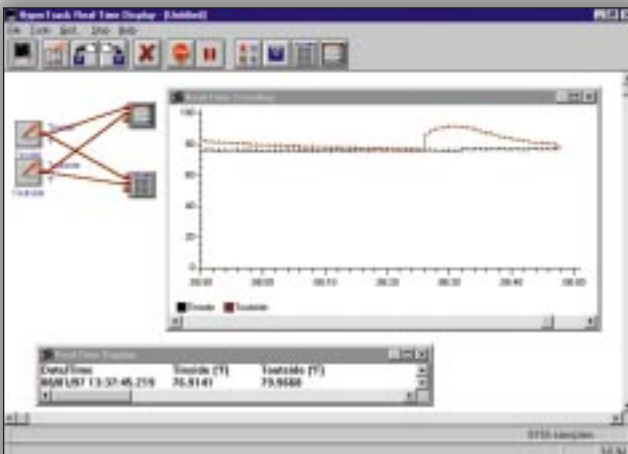
PC REQUIREMENTS:

386 or faster, Windows 3.1x, 95 or NT, mouse, printer, serial port and 2M of Hard disk space.

See Logic Beach Products on the World Wide Webwww.logicbeach.com



PLOT DATA, ZOOM, LABEL ALL WITHIN HYPERPLOT



TREND DATALOGGER READINGS REAL-TIME VIA A MODEM OR RS-222 SERIAL LINK

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