

9334 LOGGER COMMUNICATOR





Measure a multitude of items over a network

Program that enables data collection using Ethernet and data analysis in Windows

In addition to their data collection capabilities, our 8420-51, 8421-51 and 8422-51 MEMORY HiLOGGERs feature multiple channel temperature recording capabilities and are completely portable, making them very popular with our users. HIOKI developed the 9334 LOGGER COMMUNICATOR as a Windows program to enable real-time data collection on a PC. The 9334 LOGGER COMMUNICATOR allows you to connect up to sixteen 8420-51 to 8422-51 MEMORY HiLOGGERs via LAN and measure up to 512 items.

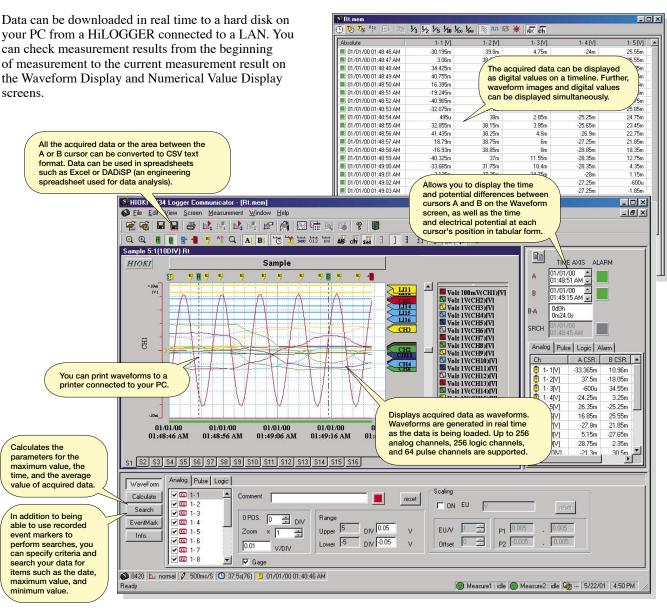


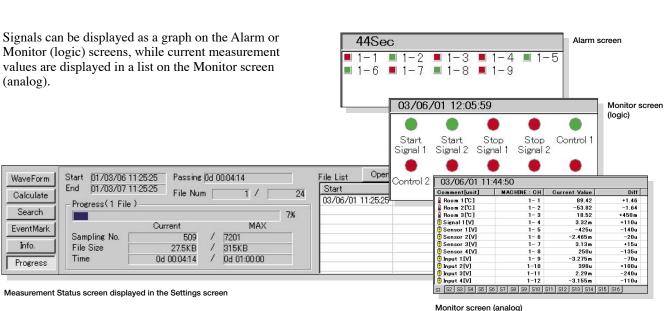




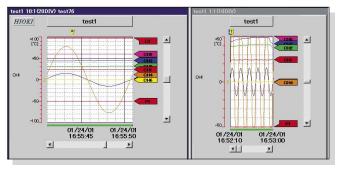
PC-based data collection and data management are just a click away

Verify trend graphs and measurement values in real time from a PC





I want to view data while measuring...



Split screen Waveform Display screen

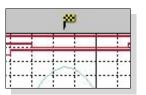
While performing measurements, the Waveform Display screen can be divided in half so that you can observe previous trends while viewing the current waveform. Previous trend cursor measurements and parameter calculations are possible.

Quickly find events

You can jump to positions that fulfill event markers and specified criteria, and display the waveform and search position measurement value.

In addition to event markers, you can specify the following search criteria:

- time axis
- peak position level
- maximum position valley position window
- minimum position alarm position volume of change



Search marker (Waveform Display screen)



Measurement value at the search position (Cursor screen)



Settings screen for search criteria

Statistical functions make data evaluation easy

CH	Average	P-P	Max.	MaxTime	Min.	MinTime
Room 1	24.7479	370m	24.92	51Sec	24.55	234Sec
Room 2	32.43715	14.13	42.27	45.5Sec	28.14	150Sec
Room 3	45.92314	19.7	54.06	79Sec	34.36	179.5Sec
Signal 1	187.32113u	158.01 m	78.92m	42.5Sec	-79.09m	47.5Sec
Sensor 1	60.04355m	75u	60.08m	92Sec	60.005m	76Sec
Sensor 2	19.6589u	70u	55u	87Sec	-15u	15Sec
Signal 2	126.87188u	158.45m	79.1 m	173Sec	-79.35m	57.5Sec

Event Marker Search screen

13 types of numerical calculations can be displayed for all the areas or a specific area only. In addition to being able to display the average, maximum, and minimum values, you can display the operation time and rate by selecting the ON time option.

Use the LOGGER COMMUNICATOR to calculate the following:

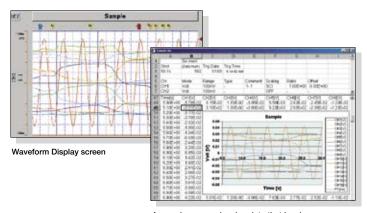
- · average value
- maximum value
- · peak-to-peak value
 - ON time • integration
- maximum time • minimum value
- OFF time · area values
- standard deviation minimum time
- number of times turned ON
- number of times turned OFF

Converting data to CSV format

You can convert a specific area (partial conversion) or the entire displayed waveform into CSV format.

The cropping option can be activated or deactivated.

Once in CSV format, the file can be opened in a spreadsheet or other programs for further processing.



A sample screen showing data that has been converted into CSV format and opened in Excel.

■ Supports multichannel measurement over a network

The 9334 LOGGER COMMUNICATOR is a program for use on a PC and supports the connection of up to sixteen 8420-51, 8421-51, and 8422-51 MEMORY HILOGGERs via LAN. This allows the simultaneous data collection and display of up to 512 analog channels, 256 logic channels, and 64 pulse channels. Measurement data can be downloaded to the disk drive of your PC in real time.

By connecting your PC, HUB, and LAN with their respective cables, you can easily use the 8420-51 to 8422-51 as multipoint loggers.

■ Wide variety of display screens

In addition to the Waveform Display screen, the 9334 allows you to display other screens, such as the Numeric Display Screen, Monitor screen, and Alarm screen. This allows you to display multiple screens, which means that you can view waveforms and numerical values simultaneously, or confirm the status of alarms on the Alarm screen while viewing the current values on the monitor. Furthermore, you can print waveforms displayed on the Waveform screen if you have a printer connected to your PC

■ I want to view data while measuring...

The Waveform Display screen can be divided in two so that you can observe previous trends while viewing the current trend. Previous trend cursor measurements and parameter calculations are possible.

■ Converting data and opening it in spreadsheets

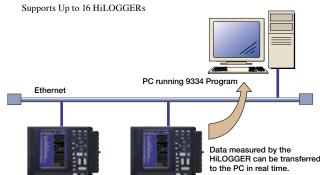
Widely used spreadsheet programs (such as Excel) can be used to edit measurement data and create reports. The 9334 LOGGER COMMUNICATOR allows you to convert acquired waveform data to CSV format.



9334 LOGGER COMMUNICATOR

(Windows 95/98, NT4.0/2000/XP English version)

■ Real-Time Data Collection on a PC (TCP/IP Communications)



Advantages of Ethernet - TCP/IP Connection

- ●10Base-T cables may be up to 100m long.
- ●The 9334 LOGGER COMMUNICATOR program is available for immediate use on the PC.
- Automatic retransmission capability provides better error handling than RS-232C serial communications.

9334 LOG	GER COMMUNICATOR specifications			
Compatible units	8420-51, 8421-51, and 8422-51 MEMORY HILOGGER			
Media	One CD-R			
Operating environment	Computers running under Windows 95/98/Me or Windows NT4.0/2000/XI CPU: Pentium (133 MHz) or later, 64-MB memory or more			
Data transfer functions	■ Interface: Ethernet ■ Number of units supported: 16 ■ Number of measurement systems: eight ■ Internal memory: Internal memory data can be loaded from the 8420-51s ■ Real-time transfer: data can be loaded in real time (maximum file size: up to 200 MB), real-time load settings can be made using the remote control			
Display functions	■ Waveform Display: displays acquired waveform data as images ■ Real-time Display: displays real-time transfers as images and allows the time axis to be split ■ Digital Value Display: displays waveform data as digital values, and allows images and digital values to be displayed simultaneously ■ Cursor function: allows you to display the time and potential differences between cursors A and B, the time and electrical potential between each cursor, and the absolute and relative times ■ Scroll function: available ■ Maximum number of channels: 256 analog channels, 256 logic channels, and 64 pulse channels ■ Data load format: real-time and memory ■ Alarm Output Display: possible			
Storage function	Memory content: criteria settings and measurement data (binary and text formats)			
Data conversion functions	■ Target data: all data or data between cursors A and B ■ Data interval: simple interval, average value, absolute and maximum values, maximum and minimum values (can be selected when saving) ■ Data conversion: can convert analog and pulse waveform data into numerical values and logic data into binary ■ Data conversion format: CSV ■ Conversion channel: can be selected when saving			
Print functions	■ Target data: all data or data between cursors A and B ■ Print format: waveforms and numerical values			
Parameter calculation functions	■ Target data: all data or data between cursors A and B ■ Calculation items: average value, peak value, maximum value, maximum value time, minimum value, minimum value time, ON time, OFF time, number of times ON, number of times OFF, standard deviation, area			
Other	■ Marking function: inserts an event marker at the start of measurement ■ Search functions: Select from event marker, date (absolute and relative time), trigger, maximum, minimum, peak, valley, alarm, level, window, or			

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