

9625 POWER MEASUREMENT SUPPORT SOFTWARE

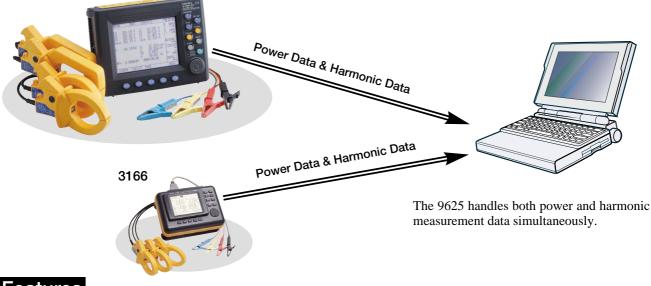
Power Measuring Instruments



Graphically process measurement data from Model 3169-20/21 easily on a PC!

The Model 9625 POWER MEASUREMENT SUPPORT SOFTWARE application provides easy graphical processing on a computer of measurement data saved on the Models 3169-20/21 and 3166 CLAMP ON POWER HITESTERs.

3169-20/21



Features

Time Series Graph Display Function

Measurement data can be displayed as a time series graph. Demand data measured in different series can be overlaid on the display.

Summary Display Function

Measurement data can be displayed directly in table form.

■Daily, Weekly and Monthly Report **Display Function**

Daily, weekly and monthly reports of demand data can be displayed.

Harmonic Analysis Function

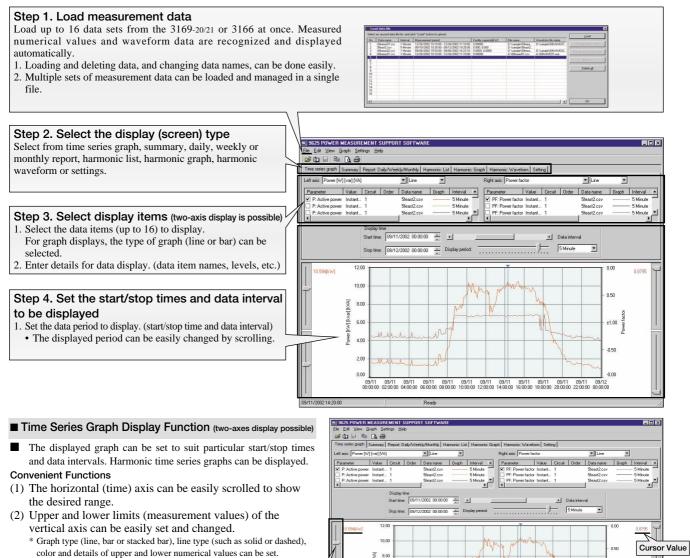
Display harmonic measurement data as a graph, list or waveform. (Also compatible with the harmonic measurement data captured by Model 3166.)

Print Function Each screen can be printed.





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- (3) Any desired numerical data value on a graph can Upper/Lowe be confirmed and displayed by cursor Limit Setting movement. Slider
- (4) The display can be switched between 2D and 3D graphs.

Summary Display Function

Summary

- Displays a summary of the data values between specified start/stop times, at the specified data interval.
- **Convenient Functions**
- (1) In addition to measurement values within the period being displayed, the summary shows period, maximum, minimum and average values.
- (2) Measurement data names and measurement units can be edited in the summary.

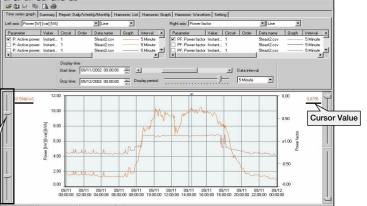
Daily, Weekly or Monthly Report Display

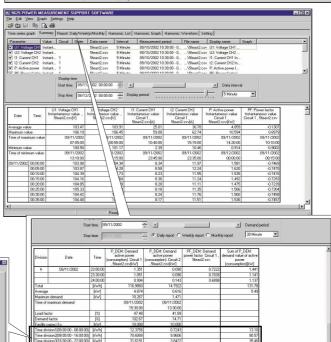
Displays a summary covering the total values in daily, weekly or monthly reports.

Convenient Functions

- (1) The time axis for each total scrolls to easily change the totalized period.
- (2) The total time range of measurement data can be totalized in up to four sections per time period.







Harmonic Display Function Harmonic data measured by the 3169-20/21 and 3166 can be displayed in various ways

Harmonic Time Series Display

While displaying a time series graph, select the harmonic item for the vertical axis to display a time series graph of harmonics.

Convenient Functions

 Up to 32 graphs can be displayed simultaneously using 2-axes display.
 For one circuit measurement, up to 32 orders can be

graphed. Using multiple instruments, time series of harmonics can be easily compared.

(2) Any desired chronological detail can be easily confirmed using the cursors on the graph.

Harmonic List Display

Displays harmonic data for the selected display item as a list.

Harmonic Graph Display

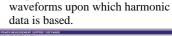
Displays harmonic data for the selected display item as a bar graph.

View the power graph to confirm trends in harmonics

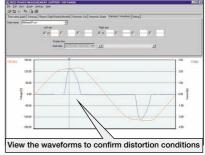
45

ected Displays the voltage and current waveforms upon which harmonic

Data wierva



Harmonic Waveform Display



Simultaneously display multiple

orders to confirm changes in

Simultaneously display data from multiple instruments to

confirm concurrent series of

harmonics!

harmonics!

Settings Display Function

View the list to confirm details

When you select a data name to be load, the measuring instrument model and setting conditions at measurement time are displayed.

Measurement data and measurement conditions can be managed at the same time.

Data name: 5feast2.csv		armonic: Graph Harmonic: Waveform Setting
Parameter	Setting	
Model number	3169	
Version	Ver1.02	
ID number	001	
Wiring	1P3W	
Number of circuits	2	
Voltage range	150V	
VT (PT) ratio	1.00	
Current range	Circuit 1 : 100A Circuit 2 : 100A	
CT ratio	Circuit 1 : 1.00 Circuit 2 : 1.00	
Reactive power meter method	OFF	
Sampling	PLL	
PLL source	U1	
Measurement line frequency	60Hz	
Measurement interval	5 Minute	
Measurement start time	09/10/2002 10:30:00	
	09/12/2002 19:25:00	

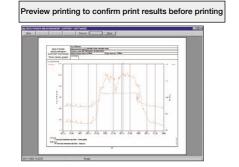
Print Function

Reports and screen copies of the displayed screen can be easily printed.

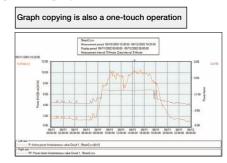
Convenient Functions

(1) Printing results can be confirmed by print preview.

(2) When creating a report, screen data can be copied and pasted into a commercial word processor program.







9625 Specifications

General Specifications

Supported instrument models Operating environment : 3169-20, 3169-21 and 3166(CLAMP ON POWER HITESTERs) Computer: PC-AT compatible (DOS/V machine) CPU: Pentium 200 MHz or higher Memory: 128 MB or more (recommended) Hard disk: 128 MB or more free space Display: XGA (1024×768) or higher Disc device: CD-ROM drive (for installation) Operating system: Windows5/98, NT4.0, 2000, Me, XP (English edition) Internet Explorer 4.0 or later

Supplied Media

: One CD-R disc

9625 Specifications

Functional Specifications

[Data Load/Save Functions]

	Loading data	File extension	Data format	Data contents	
	Data file	CSV	CSV	Instantaneous value, average value, maximum value, minimum value, integrated value, demand value, harmonic	
3169-20/21	Waveform data file	WUI Binary		Instantaneous waveform	
	Short-interval data file	BIN	Binary	Instantaneous values	
	Integrated measurement data file	ITG	CSV	Instantaneous value, integrated value	
	Demand measurement data file	DEM	CSV	Instantaneous value, maximum value, minimum value, demand value	
3166	Harmonic measurement data file	HRM	CSV	Instantaneous value, average value, maximum value	
	Waveform data file	WUI	Binary	Instantaneous waveform	
	Setting file	SET	-		
9625	Combined file	DAT	Binary		

	Save data	File extension	Data format	
9625	Combined file	DAT	Binary	

Maximum data capacity [Time Series Graph Display Function]	: Up to 528 MB per data set (total composite data up to 1.5 GB)	[Harmonic Display Function] Waveform display List display	: Displays waveform data for a specified time : Displays a list of harmonic data for a specified time
Graph display item	: Voltage, current, active power, reactive power, apparent power, power factor, frequency, Integrated value(active power, reactive power), demand, harmonic (level, content ratio, phase angle, total value, THD)	Graph display Cursor measurement	 Display a bar graph of harmonic data for a specified time Displays the value at the cursor with waveform and graph displays
Y-axis upper/lower	: The display position (upper and lower display limits) of the vertical	[Setting Display	
limit setting Interval setting	 (Y) axis of a graph can be set by scroll bar or by specifying values. Select each cycle, or 0.1, 0.2, 0.5, 1, 2, 5, 10, 15 or 30 sec.; 1, 2, 	Function] Setting display	: Displays a list of the setting conditions
interval setting	5, 10, 15 or 30 min.; or 1, 2, 3, 4, 6, 8 or 12 h; or 1 day	Setting display	Loads setting conditions from a data file (3169-20/21)
Display period range	: An optional analysis period can be specified from the overall		Loads setting conditions from a data file (3109-20/21)
setting	measurement data period		
-	(1) Analysis start date and time (YMD, HMS) is specified numerically	[Copy Function]	
	(2) Analysis stop date and time (YMD, HMS) is specified numerically	Copies to the clipboard	: Each display can be copied to the clipboard
	Display of measurement data period (measurement start and stop date and time)	[Drint Eurotion]	
Reference value setting	: Display set standard value	[Print Function] Printing a displayed	: Previews and prints the contents displayed on a time series graph
Graph type selection	: Line, bar, 2-axes and 3-dimensional	time series graph	. I to tows and prints the contents displayed on a time series graph
Graph line type & color	: Line type and display color can be set for each data set,	Printing a displayed	: Previews and prints the contents displayed in a summary
setting	and marker display is possible	summary	
Stacked bar graph	: Up to 16 types of data series (demand value, demand quantity)	Printing a harmonic	: Previews and prints the contents displayed in a harmonic
display Cursor measurement	can be displayed in an overlay graph : Measurement values can be displayed by the cursor	display	spreadsheet
Data display units setting	: Engineering units (m, k, M, G, etc.) can be selected	Printing the settings display	: Previews and prints the contents displayed in the settings display
Data display drints setting	. Engineering units (in, k, iii, 6, etc.) can be selected	Comment entry	: Text comments can be entered in any printout
[Summary Display		Printing support	: Any color or monochrome printing supported by the operating
Function]		• • • •	system
	: Select the items to display in the summary		
	: Displays a report for the specified daily weekly or monthly period	[Display Language]	: English
eport display _oad factor calculation	: Calculates the load factor and demand factor as a daily, weekly	Language	. English
display	or monthly report, and displays the results		
ndependent time range	: Specify up to four time ranges and totalize data for each time		
totalizing	range independently		



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