

9625



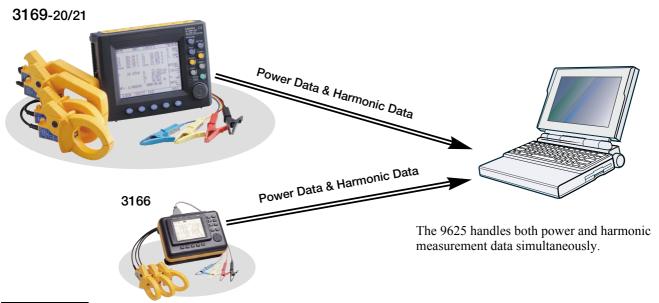
POWER MEASUREMENT SUPPORT SOFTWARE

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.



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.

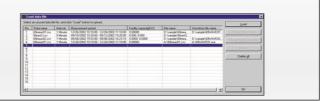


Easily display and print various screens such as graphs and spreadsheet tables

Step 1. Load measurement data

Load up to 16 data sets from the 3169 -20/21 or 3166 at once. Measured numerical values and waveform data are recognized and displayed automatically.

- 1. Loading and deleting data, and changing data names, can be done easily.
- 2. Multiple sets of measurement data can be loaded and managed in a single



Step 2. Select the display (screen) type

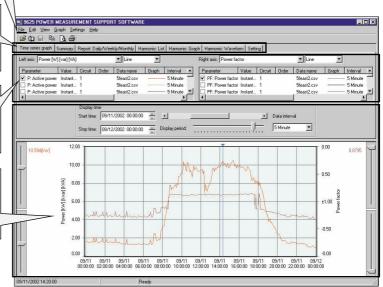
Select from time series graph, summary, daily, weekly or monthly report, harmonic list, harmonic graph, harmonic waveform or settings.

Step 3. Select display items (two-axis display is possible)

- Select the data items (up to 16) to display.
 For graph displays, the type of graph (line or bar) can be selected.
- 2. Enter details for data display. (data item names, levels, etc.)

Step 4. Set the start/stop times and data interval to be displayed

- 1. Set the data period to display. (start/stop time and data interval)
- The displayed period can be easily changed by scrolling.



■ Time Series Graph Display Function (two-axes display possible)

■ The displayed graph can be set to suit particular start/stop times and data intervals. Harmonic time series graphs can be displayed.

Convenient Functions

- (1) The horizontal (time) axis can be easily scrolled to show the desired range.
- (2) Upper and lower limits (measurement values) of the vertical axis can be easily set and changed.
 - * Graph type (line, bar or stacked bar), line type (such as solid or dashed), color and details of upper and lower numerical values can be set.
- (3) Any desired numerical data value on a graph can be confirmed and displayed by cursor movement.

(4) The display can be switched between 2D and 3D graphs.

| Second | S

■ Summary Display Function

Summary

 Displays a summary of the data values between specified start/stop times, at the specified data interval.

Convenient Functions

- 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

- 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.



Upper/Lower

Limit Setting

	raph Sum	Heport Day/We	exyvMorere,	Harmonic	List Harmonic: Graph	Harmonic: Waveform S	setting		
Parameter	Ve	lue Circuit Oligier	Data nar	ne Interv	al Measurement p	eriod File name	Display name	Graph	_
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✓ U2: Volta			Steast2.c			1:30:00 - 0\Sfeast2.c			-
✓ I1: Durrer			Steast2.c			1:30:00 - 0\Steast2.c			- 33
✓ 12: Durrer			5feast2.c			1:30:00 - 0\5/east2.c			301
P: Active			Steast2.c			1:30:00 - 0\5feast2.c	osv P. Active power I		×1
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		Display time	11						
		Start time: 09/1	1) 005 00:	00:00		9335533	▶ Data interv	y k	
			\rightarrow		80 C		5 Minute	•	
		Stop time: 09/1	2/2 12 00:	00:00	Display period:		. 7 Jo Minute		
			$\exists \vdash$						
	-	U1: Voltage CH1	IA Volt	age CH2	I1: Current CH1	12 Current CH2	P. Active power	PF: Power factor	
	Time	Instantaneous value .	Instal ne	ous value .	Instantaneous value	Instantaneous value	Instantaneous value	Instantaneous value	
Date	Time	Instantaneous value . 5least2.csv[V]	Instal he	ous value . 2.csv[V]	Circuit 1	Circuit 1	Circuit 1	Instantaneous value Circuit 1 , 5least2.csv	
12/5/25	300000	5least2.csv[V]	Instal he	[V]vso.5	Circuit 1 , 5teast2.csv[A]	Circuit 1 , Steast2.csv[A]	Circuit 1 , 5least2.csv[KW]	Circuit 1 , 5feast2.csv	
Date Average value Maximum val	10	5least2.csv[V] 183.47	Instal he	2.csv[V] 183.91	Circuit 1	Circuit 1	Circuit 1	Instantaneous value Circuit 1 , 5feast2.csv -0.1307	
Average valu	Jo Luc	5least2.csv[V] 103.47 106.19	Instal he	183.91 106.45	Circuit 1 . 5least2.csv[A] 25.01	Circuit 1 . Steast2.csv[A] 30.78	Circuit 1 . 5least2.csv[kW] 4.859	Circuit 1 , 5feast2.csv -0.1307	
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Average value Maximum val Time of maxim	ie lue mum value	5least2.csv[V] 183.47 186.19 09/11/2002	Instal he	103.91 106.45 V11/2002	Circuit 1 , 5least2.csv[A] 25.01 59.08 09/11/2002	Circuit 1 . 5feast2.csv[A] 30.78 62.74 09/11/2002	Circuit 1 . 5least2.csv[kw] 4.859 10.594 09/11/2002	-0.1307 -0.1307 0.8979 09/11/2002	
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Division	Date	Time	P_DEM: Demand active power (consumption) Circuit 1 , 5least2.csv(kW)	P_DEM: Demand active power (consumption) Discuit 2 , 5least2.csv[kW]	PF_DEM: Demand рожег factor Circuit 1 , Steast2.csv	Sum of P_DEM: demand value of active power (consumption)[kW]	
4	09/11/2002	23:00:00	1.351	0.090	0.7222	1.441	
		23:30:00	1.051	0.090	0.7036	1.141	
*		24:00:00	0.994 116.9960	0.143	0.6898	1.137	
Total		[kWh]	116.3360	14,7922		131.78 5.49	
Average Maximum	day and	[kW]	10.267	1.471		5.43	
	aximum demand	less	09/11/2002	09/11/2002			
Load facts		19/3	15:30:00 47:48				
Load racti Demand f		[%]	102.67	41.89 14.71			
Facility ca		IkWI	10.000				
	ion1(00:00:00 - 08:00:00)		12,3756			13.10	1
	ion2(08:00:00 - 16:00:00)		70,6069			80.57	
Time divis	ion3(16:00:00 - 22:00:00)	[kWh]	31.6191	3.8422		35.46	
Time divis	ion4(22:00:00 - 00:00:00)	[k\vh]	2,3826	0.2651		2.65	

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

Harmonic Time Series Display

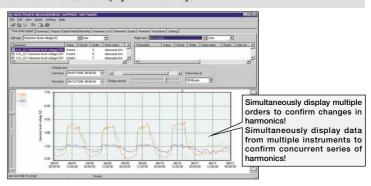
While displaying a time series graph, select the harmonic item for the vertical axis to display a time series graph of harmonics.

Convenient Functions

(1) Up to 32 graphs can be displayed simultaneously using 2-axes display.

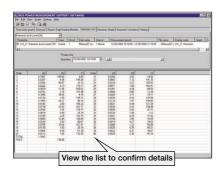
For one circuit measurement, up to 32 orders can be graphed. Using multiple instruments, time series of harmonics can be easily compared.

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



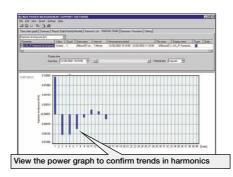
Harmonic List Display

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



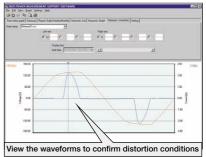
Harmonic Graph Display

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



Harmonic Waveform Display

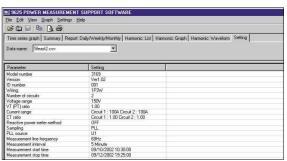
 Displays the voltage and current waveforms upon which harmonic data is based.



■ Settings Display Function

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.

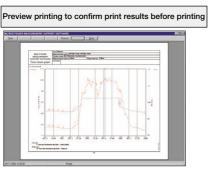


■ Print Function

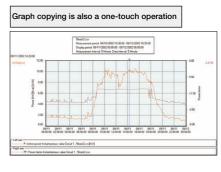
Reports and screen copies of the displayed screen can be easily printed.

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 : 3169-20, 3169-21 and 3166(CLAMP ON POWER HITESTERS)

Operating environment : 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: Windows95/98, 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	Up to 528 MB per data set (total composite data up	to 1.5 GB)	[Harmonic Display Function]	
Time Series Graph			Waveform display	: Displays waveform data for a specified time
Display Function]			List display	: Displays a list of harmonic data for a specified time
Graph display item :	: Voltage, current, active power, reactive power, apparent pow		Graph display	: Display a bar graph of harmonic data for a specified time
	power factor, frequency, Integrated value(active power, reac demand, harmonic (level, content ratio, phase angle, total va		Cursor measurement	: Displays the value at the cursor with waveform and graph displays
V avia	The display position (upper and lower display limits) of t		[Catting Diamles	
Y-axis upper/lower			[Setting Display	
limit setting	(Y) axis of a graph can be set by scroll bar or by specifying		Function]	D' 1 1' (cd 4' 1')
Interval setting	Select each cycle, or 0.1, 0.2, 0.5, 1, 2, 5, 10, 15 or 30		Setting display	: Displays a list of the setting conditions
-	5, 10, 15 or 30 min.; or 1, 2, 3, 4, 6, 8 or 12 h; or 1 day			Loads setting conditions from a data file (3169-20/21)
Display period range :	: An optional analysis period can be specified from the over	erall		Loads setting conditions from a settings file (3166)
setting	measurement data period			
	(1) Analysis start date and time (YMD, HMS) is specified numer		[Copy Function] _	
	(2) Analysis stop date and time (YMD, HMS) is specified numer		Copies to the clipboard	: Each display can be copied to the clipboard
	Display of measurement data period (measurement	start		
	and stop date and time)		[Print Function]	
Reference value setting :	: Display set standard value		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	
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 quan	tity)	Printing a harmonic	: Previews and prints the contents displayed in a harmonic
display	can be displayed in an overlay graph		display	spreadsheet
Cursor measurement :	: Measurement values can be displayed by the cursor		Printing the settings	: Previews and prints the contents displayed in the settings
Data display units setting :	: Engineering units (m, k, M, G, etc.) can be selected		display	display
			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
Display item selection :	: Select the items to display in the summary			
Daily, weekly and monthly	: Displays a report for the specified daily weekly or monthly	period	[Display Language]	
report display			Language	: English
Load factor calculation :	: Calculates the load factor and demand factor as a daily, w	eekly	, <u>.</u>	
display	or monthly report, and displays the results			
Independent time range :	: Specify up to four time ranges and totalize data for each ti	me		
totalizing	range independently			
•	· , ,			





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