

Communication Package DT4900-01

With Application Software

- Graphically display and store measured data in real time
- Log data at intervals from as fast as 1 second directly
- onto an Excel spreadsheet
- Export logged data as text
- Save data from the DMM's internal memory as a CSV file

99.39 v

59.988 Hz

6000

8-6 APS (18

• View previously saved files

60000

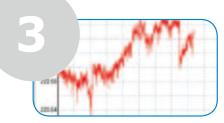
Hioki's DT Series: The ultimate line of digital multimeters



Connect the DMM to your PC using the supplied infrared-USB adapter and USB cable. The USB driver is automatically configured to deliver true plug-and-play operability.



Launch the DT4200 Communicator application software. Software updates are free from the Hioki website.



Log and analyze data or save directly onto Excel or view graphs right on the Communicator software.



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Log Voltage and Frequency at the Same Time to Monitor the Stability of a Power Grid

Mode: ACV

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The DT428 and DT425 Series offer dual displays that can be shown directly on the PC for realtime monitoring. Set monitoring intervals, watch signals in real time, and dump data directly onto an Excel spreadsheet for later analysis.

Real Time Monitor (Measured value)

- 1. Connect the DMM to the PC using the USB cable
- 2 Launch the application, choose [Setting] from the menu, click the [Record Setting] tab, and set the recording interval from as fast as 1 second as well as the recording duration.
- 3 Click the [Save Settings] tab to customize the file.
- 4. Watch the Real Time Monitor and click [Monitor].
- 5. Click [Start] to begin recording.
- 6. Click [Save] to record data

5.776 mV Range: Auto ACV,60m 11.564 kHz FREQ,100k Stop Monitor (((•)) APS V-A PEAK CLEAR REL FILTER SLOW Real-time monitor

Voltage and frequency on the same time plot

Information about frequency deviation is critical to the reliable and stable operation of a power grid. A lower than expected voltage will stop operations, and exceedingly high voltage can cause overheating. Changing frequencies can alter the rotation speed of motors and generators, making the DMM a low-cost alternative for simple power quality analysis when coupled with application software for continuous monitoring.

_	Record Time	Main	Sub	^
	2012/11/17,06:14:07	ACV 6.933 mV	Freg. 18.721 kHz	
	2012/11/17,06:14:08	ACV 7.021 mV	Freq. 18.541 kHz	
	2012/11/17,06:14:09	ACV 7.115 mV	Freq. 18.613 kHz	
	2012/11/17,06:14:10	ACV 7.094 mV	Freq. 18.698 kHz	
	2012/11/17,06:14:11	ACV 7.009 mV	Freq. 18.832 kHz	
	2012/11/17,06:14:12	ACV 6.964 mV	Freq. 19.033 kHz	
	2012/11/17,06:14:13	ACV 7.069 mV	Freq. 19.290 kHz	
	2012/11/17,06:14:14	ACV 7.170 mV	Freq. 19.581 kHz	
	2012/11/17,06:14:15	ACV 7.142 mV	Freq. 19.895 kHz	Ξ
	2012/11/17,06:14:16	ACV 7.093 mV	Freq. 18.519 kHz	
	2012/11/17,06:14:17	ACV 7.117 mV	Freq. 18.751 kHz	Ŧ
	Previous	Next 1/1	1 Jum	p
	Sa	ampled da	ata	

	🔿 By return key	
Excel Open	 By return key By time interval 	
	1 sec 💌 Int.	Start

To save directly onto Excel, select [Paste Record Data to Excel] from the [Option] menu.

Use the DT428 Series Handheld DMM as a Benchtop Digital Multimeter

Benchtop multimeters may be costly and have functions you may not need. A handheld DMM that can be taken to the worksite but that is also powerful and accurate enough to use on benchtop applications can minimize capital investment and serve as a multi-functional tool in and out of the lab.

One home appliance manufacturer does exactly that to verify that shipping inspections are properly conducted. Quality control technicians measure and record the voltage of the finished good's power supply to make sure they are set up correctly according to the destination country's voltage level. Basic tests such as this do not require a complex bench top multimeter because the professional Hioki digital multimeters deliver ±0.025% DCV and $\pm 0.2\%$ ACV accuracy that is on par with larger and more expensive bench top meters.

Measurements are taken and stored in the DMM's internal memory, and then data is downloaded to a PC using the application software and filed for record keeping and audits.

Folder name: C#		Browse	Read Memory Data form DMM		
File name:	memdata csv		Save setting		
			Folder name:		
			C#		Browse
			File name:	memdata csv	
	ОК	Cancel	Reading the data from DMM		218 / 4
			Remain: 6 sec Elapsed: 8 sec	ОК	Cancel

- 2 Launch the application and
- click [Read Memory Data from DMM] from the option menu
- 3. Choose the destination folder to save the recorded data
- 4. Open and manage data using Microsoft Excel

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All information correct as of May 1, 2015. All specifications are subject to change without notice