# **User Manual**

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### <sup>#</sup>1 System summarize

Muser1000 is a software for cooperate with PC and UPS. Its major function is following:



- Manage the communication connection with UPS
- Monitor all current data from UPS
- Display UPS work state with figure
- Control UPS
- Set UPS rating parameter
- Log all events and alarm informations



## <sup>#</sup>2 System circumstance require

RS-232 communication port: COM1-COM4 Operating system:

- Microsoft Windows 98 •
- Microsoft Windows 2000 •
- Microsoft Windows NT •
- Microsoft Windows Me
- Microsoft Windows XP

### <sup>#</sup>3 Hardware install

Muser1000 hardware install steps:

- Connect UPS and PC with serial port cable
- Male serial port connect to the RS232 communication port of UPS
- Female serial port connect to the RS232 communication port of PC •

## <sup>#</sup>4 Software install

- Put Muser1000 CD into CD-ROM
- Run setup.exe program, By default, the program will be installed into "C:\ • Program Files\Muser\Muser1000\"
- When Muser1000 install done, user can run this program

<sup># 2</sup> # 3 # 4

## <sup>#</sup>5 Operation

O UPSMonitor	000
Setting Log Control	Function Menu
Main Monitor Object: 1	Module Alarm And Status Digit Meter Chart
	Bauger £0.KVA
	Main Monitor Object Real-Time Information Display Area
Cor	inected UPS
Parallel Information Total Apparent Power 0.000 KVA	
Total Real Power 0.0000 Parallel Amount 1 Invert output number 1	UPS Parallel Information
Parallel ID 1	
	Light for showing the new alarms
	1353:31 UPS 1 Communication is established
The ups which brought name	2009-11-06 13:53:47 UPS 1 Mains Status UPS States And Alarms Display Area
UPS Monitor	Version 2.1.3.0 13:54

### <sup>#</sup>5.1 Software main figure

**Connected UPS:** indicator on express the corresponding UPS is online, indicator off express the corresponding UPS is offline.

Main monitor object: can select one UPS as main monitor object(only select online UPS), if the UPS is selected to main monitor object, figure not only will display states and alarms of this UPS in UPS states and alarms display area, but also can display real-time data information in real-time information display area.

Real-time information display area: display the real-time information of main monitor UPS.

UPS parallel information area: display parallel information of all online UPS.

<sup># 5</sup> # 5.1

UPS states and alarms display area: display the latest states information and alarm information of all online UPS.

Light for showing the new alarms : used to remind user that some UPS have new alarm information, red light on express the corresponding UPS have new alarm information.

Software Parameter Setting	0
Software Parameter	
Baud Rate 2400 ·	
Interface LCD -	
Under following conditions, computer enter dormancy	
When the battery voltage PreAlarm,the computer	
will be entered dormancy after this time :	
When the battery voltage is low,the computer will 0.5 Minute be entered domancy after this time :	
🗌 Automatic Run Program At Windows Startup	
Save Setting Cancel	

### <sup>#</sup>5.2 Software parameter setting

#### Software parameter setting:

- COM: select PC COM.
- Baud rate: set communication baud rate.
- Interface: UPS have 2 interfaces: LCD and monitor card, users must select interface by the actual connection.
- Automatic run program at windows startup: users can select if automatic run Muser1000 at windows startup or not.

# <sup>#</sup>5.3 Real-time information display

Users can watch the following figures in real-time information display area when PC construct connection to UPS:



Module Alarm And Stat	tus Digit Meter Chart
Rated Power	10.0 KVA

This figure displays the running states of main monitor  $\ensuremath{\text{UPS}}\xspace$ 

Meter



These figure displays some current data of main monitor UPS with meter.

	٠	•	
υ	1	g1	t

Module Alarm And Status Digit Meter Chart UPS 1					
<u>A</u>	unalog Data	E	attery Data		
	Value	Unit		Value	Unit
Input Voltage	220.9	V	Positive BUS Voltage	390	V
Input Current	4.0	A	Negative BUS Voltage	390	V
Input Power Factor	0.65		Battery Voltage	205	V
Input Frequency	50.0	Hz	Battery Current	1.0	A
Output Voltage	220.3	V	Battery Capability	0	%
Output Current	0.0	A	Support time of battery	0	minute
Load Percent	0	%			
Load Peak Rate	0.0				
Output Frequency	50.0	Hz			
Invert Voltage	219.7	V			
Invert Frequency	50.0	Hz			
Real Power	0.000	КW			
Apparent Power	0.000	KVA			
Temperature	35	ъ			
				1	

This figure displays all current data of main monitor UPS with digit.

Chart



This figure displays variety of input voltage and output voltage of main monitor UPS with  ${\rm chart}_{\circ}$ 

Alarm	And	Status
-------	-----	--------

Module Alarm And Status Dig	it Meter Chart		UPS 1			
Status In	nformation				Alarm Information	
	Status Information	^	Index	Alarm	Information	^
Rectifier Status	Work					
Input Power Supply Status	Mains supply					
Invert Open/Close Status	Power supply normally					
M-Bypass Switch Status	Opened					
Output Status	Invert Output					
EPO Activated	No					
Rectifier Limited Current	No					
battery charge	Yes					
battery boost charging	Yes					
Battery self test	No					
Coming to Interval transfer	No					
Inverter invalid due to over load	No					
UPS In shutdown Due To	No					
Parallel in Bypass	No					
Transfer Times-out	No					
Change master	Yes	~				~
005E	6048				0000 0000 0000 0000	

This figure will display status information and alarm information of main monitor UPS with list box.

Rated Parameter Of UPS 1		00
Work Mode     On-Line Mode       Parallel ID     1       System Volt Level     220V       Output Frequency Level     50Hz       Parallel Amount(1~15)     1       Parallel Redundancy (0~14)     0	Bypass Frequency Range Bypass Volt Upper Limit Bypass Volt Lower Limit Invert Output Volt Fine Switch Bypass Times(3~10)	5%   15%  15%  45%  9  Startup  Forbid  Forbid  Forbid
Battery Number     8       Boost Upper Limit Volt(V)     2.30V       EOD Volt(1.60~1.90V)     1.70       Battery Volt Low PreAlarm Time(1~32 minute)     5	Battery Parallel Group(1~8) Single Battery Capability(1~200A Float Base Volt(V) 2 LBS Setting LBS Fo	Image: Descent state stat

# <sup>#</sup>5.4 UPS rating parameter query and setting

Rated Parameter Of UPS 1		00
Work Mode     On-Line Mode       Parallel ID     1       System Volt Level     220V       Output Frequency Level     50Hz       Parallel Amount(1~15)     1       Parallel Redundancy (0~14)     0	Bypass Frequency Range Bypass Volt Upper Limit Bypass Volt Lower Limit Invert Output Volt Fine Switch Bypass Times(3~10)	5% • 15% • 45% • 0% • 9 0 Startup Buzzer v Forbid Enable Forbid
Battery Number 8 Boost Upper Limit Volt(V) 2.30V • EOD Volt(1.60~1.90V) 1.70 Battery Volt Low PreAlarm Time(1~32 minute) 5	Battery Parallel Group(1~8) Single Battery Capability(1~200/ Float Base Vott(V) 2 LBS Setting LBS F	1     Battery Boost       Allow     Forbid       20     Power Walk In       orbid     Allow
	Query	

If you want to query UPS rating parameter, hit query option, all information is

read-only in query mode, if you want set new rating parameter, select modify option and modify any parameter first, then hit save button. Notice:

1: UPS be operated is the main monitor UPS when you query or modify, if you want query or modify other UPS, select UPS you want modify as the main monitor UPS first, then operate in this windows.

 $2\colon$  If communicate with monitor card, there is only query function and no modify function when open this windows.

### <sup>#</sup>5.5 Query and modify time of UPS monitor module

🗊 Time C	f Monitorring Module	00
Date: Time:	2008- 6-17 <b>•</b> 0:00:00 <b>•</b>	Save
Searc	h 2008-6-17 00:56:4	1

Users can query and modify date and time of UPS monitor module.

Notice: this function module is usable only when communicate with monitor card, there is no this function when communicate with  $LCD_{\circ}$ 

# #5.6 Log query

Index	Time	Device	Event	^		Value	Unit
44	2008-08-20 14:09:27	1	System not synchronized to bypass warning has been cleared		Input Voltage	221.2	V
45	2008-08-20 14:09:55	1	Mains Status		Input Current	1.4	A
446	2008-08-20 14:15:23	1	Bypass Status		Input Power Factor	0.65	
47	2008-08-20 14:15:35	1	No battery warning has been cleared		Input Frequency	50.0	Hz
448	2008-08-20 14:16:57	1	System not synchronized to bypass		Output Voltage	220.3	v
149	2008-08-20 14:16:59	1	System not synchronized to bypass warning has been cleared		Output Current	0.0	0
150	2008-08-20 14:17:05	1	No battery		Load Percent	0.0	
451	2008-08-20 14:17:08	1	Mains Status		Output Bower Eactor	0.00	
452	2008-08-20 14:17:14	1	No battery warning has been cleared		Load Deak Rate	0.00	_
453	2008-08-20 14:20:49	1	Communication is Lost		Output Frequency	50.0	LI7
454	2008-08-20 14:20:52	1	Communication is established		Toyort Voltage	220.2	112
					Invert Frequency	50.0	U7
					Real Dower	0.000	112
				1	Apparent Dower	0.000	LVVA
					Apparent Power	0.000	NVA
					Temperature	34	°C
		-			Switch Bypass Times	2	
					Positive BUS Voltage	390	V
		-			Negative BUS Voltage	390	V
	1			빌	Pattory Voltago	0	v

Users can see all events of UPS when open this windows, hit anyone event, the program will display simulate data when this event happen. Users can leach events by the date, when you select any day, the program will display all events in this day, users also can export all events of log.

## <sup>#</sup>5.7 UPS control

	Self. Test Times(0~999) 5 second
Turn on/off UPS ON OK OFF	Battery Self-Testing Self-Testing Cancel

Users can select Turn on/off UPS, Battery self-testing, Cancel self-testing. Select UPS ID you want to operate first. you must set self-testing time first when select battery self-test.

### Thanks for using this product !