User Manual

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1 System summarize

Muser4000 is software for cooperating with PC and KSTAR UPS. Its major function is as following:



- Manage the communication connection with UPS.
- Monitor all current data from UPS.
- Display UPS work state with figure.
- Setting UPS parameter.
- Log all events and alarm information.
- Log timed current data from UPS.

2 System circumstances requirements

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

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

3 Hardware installation

Muser4000 hardware installation steps

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

4 Software installation

- Put UPS CD into CD-ROM.
- Run setup.exe program, and default the program will be installed into"C:\ Program Files\Muser4000".
- When UPS install done, user can run this program.

5 Operation



5.1 Software main figure:

Turn on/off Com: Indicator on express the corresponding serial port is open, indicator off express the corresponding UPS is close.

Communication Status show: Red light means communication error, Green light means communication OK.

Equip operation: Click append/delete/search/property button to manage the equipment.

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

Data information: Display the real-time data information of main monitor UPS.

Status information: Display the real-time status information of main monitor UPS.

Alarm information: Display the real-time alarm information of main monitor UPS.

5.2 Software Parameter Setting

HIP/HPM3320-SA

The latest muser4000 Software Version2.3.2.12



•choose: "Software Parameter Setting"

Muser4000 Monitor	
System Log Control Language	Help
User Set	Close COM
Software Parameter Setting	Data Sketch Map
Delete Property	
	Input A Phase V 0.0 V Input B Phase V 0.0 V Input C Phase V 0.0 V Load percent
	100 150 200 100 150 200 100 150 200 A phase B phase C phase
	50 set 150% 250 50 set 150% 150% 150% 150% 150% 150% 150% 150%
	0 < <u></u> >300, 0 < <u></u> >300, 0 < <u></u> >300, 0 < <u></u>
	Output A Phase V 0.0 V Output B Phase V 0.0 V Output C Phase V 0.0 V
	50 standard 250 50 standard 250 50 standard 250 50 standard 250
	DC Input Voltage Capability of Battery Output Frequence
	- Alexe
	Switch Status
	Input Supply Power Status: No Supply
	UPS Supply Power Status: No Supply
COM is open	Version 2.3.2.12 16:44:27

• "System"

COM: Select PC COM.

Baud Rate: Select PC Baud Rate.

Protocol: Select Protocol.

COM Port must be the same design as PC port, Baud Rate use "9600", Protocol use "HIP" and then "Save Setting"

Software Parameter Setting	X
	,
Baud Rate 9600	
Protocol: HP	
Automatic Run Program At Windows Startup	
Save Setting Cancel	

As shown in the following figure: (Each frame should refer to the steps mentioned above in order to add UPS, with different parameters.

Click Append, type any name or number at " Equipment Name" menu, however the Equipment Address should be the same as frame ID number, then click Append.



🗳 Append Equipment	
Equipment Name: 1	
Equipment (Jaress: 1	
App 3	

Muser4000 Monitor	
System Log Control Language Help	
🍖 🏦 🖽 🍕 🐠 🕼	Close COM
Seriel Input A Delete Property Real-time Info 100 Graph 0 Output A 100 50 0 0 Switch Input Switch UFS S	ketch Map tase V 230.3 V nput B Phase V 230.1 V nput C Phase V 231.1 V 0 150 200 Phase V 217.3 V Output B Phase V 220.0 V Output C Phase V 216.7 V 0 150 200 150 200 150 200 150 200 150 200 150 200 100 150 200 100 10
COM is open	Version 2.3.2.12 16:39:33

HPM/YMK Parameter Setting: The latest muser4000 Software Version2.3.0.9 •choose"System"



•choose: "Software Parameter Setting"

Muser4000 Monitor		
System Log Control Language	Help	
User Set	Close C	м
Software Parameter Setting		
	Aata Sketch Map	
Delete Property		
	Input A Phase V U V Input B Phase V U V Input C Phase V U V Load percent	
	100 150 200 100 150 200 100 150 200 A phase B phase C pha	ase
	50 - 250 250 50 - 150% - 150\% -	_
	Output A Phase V U V Output B Phase V U V Output C Phase V U V	
	50 standard 250 50 standard 250 50 standard 250	
		-
		*
	DL Input Voltage Support Time Ur Battery Lapability or Battery Uutput Frequence	
	Switch Status	
	Input Switch Status: OH /OFF	^
	Bypass Switch Status: ON/OFF	
	Output Switch Status: ON/OFF	
	Manu-Bypass Switch Status: ON/OFF	
	Input Supply Power Status:	
	UFS Supply Fower Status:	
COM is open	Version 2.3.0.9 16:59:08	

• Choose "System"

COM Port must be the same design as PC port, Baud Rate use "2400", Protocol use "Modularization UPS" and then click "Save Setting"

🖃 Sofi	ware Param	eter Setth	ıg	- X
	COM	COM1		
	Baud Rate	2400		
	Protocol	Modulariz	ation UPS	
	Automatic Rur	n Program At	: Windows Sta	rtup
	3			
	Save Setting	g	Cancel	

ullet Add UPS

Click Append, type any name or number at " Equipment Name" menu, however the Equipment Address should be the same as frame ID number, then click Append.

- Muser4000 Monitor	
System Log Control Language	Help
🍖 🏤 📖 🍕 🕘 📮	Close COM
Search Append Delete Property	Data Sketch Map Input A Phase V 0 V Input B Phase V 0 V Input C Phase V 0 V 100 150 200 50 250 100 150 200 0 250 0 250 50 250 100 150 200 0 0 250 0 250 50 100% 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 </th
	Bypass Switch Status: ON / OFF Output Switch Status: ON / OFF Maun-Bypass Switch Status: ON / OFF
	Input Supply Power Status:



5.3 Real-time information display

Users can check the following figures in real-time information display area when PC connects to UPS:

5.3.1 Data

Data Sketch Map	
Input A Phase V 231.7 V Input B Phase V 231.3 V 100 150 200 50 250 0 300 0 300	Input C Phase V 232.0 V 100 150 200 50 250 0 250 150% 150% 150% 150% 100% 100% 100%
Output A Phase V 220.1 Output B Phase V 220.8 V 100 150 200 100 150 200 50 250 0 50 250 0 300 300 <td>Output C Phase V 220.5 V 100 150 200 50 250 0 250 0 2 0 2 0 2 0 2 0 2 0 2</td>	Output C Phase V 220.5 V 100 150 200 50 250 0 250 0 2 0 2 0 2 0 2 0 2 0 2
DC Input Voltage Support Time Of B 474.4 V 999 Mir	iattery Capability of Battery Output Frequence nute 90 % 50.0 Hz
Input Switch Status: ON / OFF Bypass Switch Status: ON / OFF Output Switch Status: ON / OFF Manu-Bypass Switch Status: ON / OFF	<u>_</u>
Input Supply Power Status: Mains Supply UPS Supply Power Status: Inverter	<u>_</u>

This figure displays partial current data of monitor UPS with meters.

5.3.2 Sketch Map





This figure displays the running status of monitor UPS.





This figure displays the input and output Volt of monitor UPS with curve..

5.4 UPS rating parameter query and setting

HIP/HPM3320-SA User setting

Muser4000 Monitor		
Statem Log Control Language	Help	
User Set Solimore December Setting		Close COM
Exit	Data Sketch Map	
Delete Property	Input A Phase V 0.0 V Input B Phase V 0.0 V Input C Phase V 0.0 V Load	percent
	100 150 200 100 150 200 100 150 200 100 150 200 100 150 250 100 150% 100%	B phase C phase 150% 100% 0 2 0 2 Pe HZ
	Input Supply Power Status: Battery Supply	
	UPS Supply Power Status: Inverter	
COM is open	Version 2.3.2.12	17:49:22
ダ User Set		
	S.	et
Work Mod	de Normal 💌 Bypass Frequency Range 10% 💌 Output	C. Disable
System Voltage Lev	vel 380V 💌 Bypass Volt Upper Limit 5% 💌	
System Frequency Lev	vel 50Hz Bypass Volt Iower Limit 45% C Enable	C Disable
Parallel Amour	Invert-Volt adjustment 0%	
	Ups ID 1	C Disable
Parallel Redundance	cy 0	
Battery Set		
Battery Number((x2) 40 Single Battery Capability(AH) 100 Soost Charge	C Disable
Single Battery Volt.	t.(V) 12V Float base Volt.(V/Cell) 2.25	
oost upper limit Volt.(V/C	Cell) 2.30 💌	
EOD Volt(0.01V/C	Cell) 1.75	
Battery Gro	oup 1 Boost Last Time(H) 1	

This figure displays the forms for browsing.

🛱 Data Set	
Name Work Mode System Voltage Level System Frequency Level Bypass lock out Bypass Frequency Range Bypass Volt Upper Limit Bypass Volt lower Limit Invert-Volt adjustment Battery Number Single Battery Volt Battery Group Boost upper limit Volt Float base Volt EOD Volt Single Battery Capability Max Charge current Boost Last Time(H) Staus Control Parallel Amount Parallel Redundancy Ups ID	Value Normal Set

This figure displays the forms for setting

If user wants to check total data or all UPS, then user has to click "Data Set".

When users want to set the Parallel, users have to choose "Parallel Amount " and put value number and click "Set", or choose Parallel Redundancy on "Name" menu, and click "Set" to retrieve the data.

Notice:

All information of User Set is Read-Only. User can change settings on pushing selection buttons on LCD frame.

Muser4000 Monitor					
ystem Log Control Language	Help				
User Set Sommere December Setting					Close COM
Exit	Data Sketch Map				
	Input A Phase V 232.1 V	Input B Phase V 231.7 V In	put C Phase V 232.4		ad percent
Real-time Info			100 ¹⁵⁰ 200	A phase	B phase C phase
Land and address	0 300		o 🏹 💦 💦).	
	V V			100%	100%
	Output A Phase V 220.0 V	Output B Phase V 220.3 V O	150		
	100 150 200 50	100 150 200 50 50 250	100 ¹⁵⁰ 200 50		
	0 🧳 🧹 🔭	o 🦨 🖌 🍡 c	o 🦉 🧹 🔪 og	0 %	0% 0%
		hh	• · · · · · · · · · · · · · · · · · · ·		
	DC Inp	ut Voltage Support Time Of Ba	attery Capability of Batter	ry Output Freque	nce
	524.	6 V 999 Mini	ute 100	% 49.9	Hz
	Switch Status		larm		
	Input Switch Status: Bypass Switch Status	ON /OFF : ON / OFF			<u>^</u>
	Output Switch Status	: ON / OFF			
	Manu-Sypass Switch S Input Supply Power S	tatus: UN / Orr tatus: Mains Supply			
	VPS Supply Power Sta	tus: Inverter			
COM is open					17.00.00
com is open			Version 2.3.0.9		17:22:30
User_Set_			Version 2.3.0.9		
Vser Set			Version 2.3.0.9		
₩ User Set		(Brow)	C Modify	Set	
User Set		Brow	C Modify	Set	
₩ork Mode	Single	Brow	Version 2.3.0.9 Modify	Set Output (• Enable	
Work Mode System Voltage Le	Single	Brow Bypass Frequence Rar Bypass Volt Uppe	Version 2.3.0.9 ^C Modify n 5% ▼ at 15% ▼	Set	
Work Mode System Voltage Le System Frequence	 Single 220V 50Hz 	Bypass Frequence Rar Bypass Volt Uppe Bypass Volt Iower Limit	Version 2.3.0.9 [●] Modify n 5% ▼ er 15% ▼ t -45% ▼	Set Output Enable Auto Turn-on Enable	Disable
Work Mode System Voltage Le System Frequence Parallel Amou	 Single ▼ 220V ▼ 50Hz ▼ 4 1 	Bypass Frequence Rar Bypass Volt Uppe Bypass Volt lower Limit Invert-Volt fine	Version 2.3.0.9 C Modify n 5% ▼ at 15% ▼ t 45% ▼	Set Output © Enable Auto Turn-on © Enable Buzzer	Disable
Work Mode System Voltage Le System Frequence Parallel Amou Parallel Redu	 Single 220V 50Hz 1 	Brow Bypass Frequence Rai Bypass Volt Uppe Bypass Volt lower Limit Invert-Volt fine	Version 2.3.0.9 ∩ Modify n 5% ▼ er 15% ▼ t -45% ▼ 0% ▼	Set Output © Enable Auto Turn-on © Enable Buzzer (© Enable	Disable Disable Disable
Work Mode System Voltage Le System Frequence Parallel Amou Parallel Redu	 Single 220V 50Hz 1 0 	Bypass Frequence Rar Bypass Volt Uppe Bypass Volt lower Limit Invert-Volt fine	Version 2.3.0.9 ^C Modify n 5% ▼ er 15% ▼ t 45% ▼ 0% ▼	Set Output © Enable Auto Turn-on © Enable Buzzer (© Enable	Disable Disable Disable
Vork Mode System Voltage Le System Frequence Parallel Amou Parallel Redu Bypass lock out	 Single 220V 50Hz 1 10 	Bypass Frequence Rar Bypass Volt Uppe Bypass Volt Iower Limit Invert-Volt fine	Version 2.3.0.9 ∩ Modify n 5% ▼ ar 15% ▼ t -45% ▼ 0% ▼	Set Output © Enable Auto Turn-on © Enable Buzzer © Enable	Disable Disable Disable
Work Mode System Voltage Le System Frequence Parallel Amou Parallel Redu Bypass lock out	 Single 220V 50Hz 1 1 10 	Bypass Frequence Rar Bypass Volt Uppe Bypass Volt lower Limit Invert-Volt fine	Version 2.3.0.9 [∩] Modify n 5% ▼ at 15% ▼ t 45% ▼ 0% ▼	Set Output © Enable Auto Turn-on © Enable Buzzer (© Enable	Disable Disable Disable
Vork Mode System Voltage Le System Frequence Parallel Amou Parallel Redu Bypass lock out Battery Set Battery Numbe	 Single 220V 50Hz 1 10 10 138 	Bypass Frequence Rar Bypass Volt Uppe Bypass Volt lower Limit Invert-Volt fine Single Battery Capability(AH	Version 2.3.0.9 ∩ Modify n 5% ▼ er 15% ▼ i -45% ▼ 0% ▼	Set Output © Enable Auto Turn-on © Enable Buzzer © Enable Boost Charge	Disable Disable Disable
✓ User Set ✓ User Set Work Mode System Voltage Le System Frequence Parallel Amou Parallel Redu Bypass lock out Battery Set Battery Numbe	 Single 220V 50Hz 10 10 138 134 	Bypass Frequence Rar Bypass Volt Uppe Bypass Volt lower Limit Invert-Volt fine Single Battery Capability(AH	Version 2.3.0.9 C Modify n 5% ▼ 15% ▼ 15% ▼ 0% ▼	Set Output © Enable Auto Turn-on © Enable Buzzer © Enable Boost Charge © Enable	Tisable Disable Disable Disable Disable
Vork Mode System Voltage Le System Voltage Le System Frequence Parallel Amou Parallel Redu Bypass lock out Battery Set Battery Numbe Single Battery Volt.(V)	 Single 220V 50Hz 10 	Bypass Frequence Rai Bypass Volt Uppe Bypass Volt lower Limit Invert-Volt fine Single Battery Capability(AH	Version 2.3.0.9 Modify n 5% ▼ r 15% ▼ 15% ▼ 0% ▼ 0% ▼	Set Output © Enable Auto Turn-on © Enable Buzzer © Enable Boost Charge © Enable	Tisable Disable Disable Disable Disable
✓ User Set Work Mode System Voltage Le System Voltage Le System Frequence Parallel Amou Parallel Redu Bypass lock out Battery Set Battery Volt.(V) Boost upper limit Volt.(V/Cell	 Single 220V 50Hz 50Hz 10 10 12V 2.30 	Bypass Frequence Rar Bypass Volt Uppe Bypass Volt lower Limit Invert-Volt fine Single Battery Capability(AH Float base Volt.(V/Cell) Max Charge current(4)	Version 2.3.0.9 Modify n 5% ▼ ar 15% ▼ t 45% ▼ 0% ▼ 1) 100 2.25 ▼ A) 6	Set Output © Enable Auto Turn-on © Enable Buzzer © Enable Boost Charge © Enable	Trizziso
Vork Model Vork Model System Voltage Le System Frequence Parallel Amou Parallel Redu Bypass lock out Battery Set Battery Numbel Single Battery Volt.(V) Boost upper limit Volt.(V/Cell)	 Single 220V 50Hz 50Hz 10 10 12V 2.30 1.80 S 	Bypass Frequence Rai Bypass Volt Uppe Bypass Volt lower Limit Invert-Volt fine Single Battery Capability(AH Float base Volt.(V/Cell) Max Charge current(#	Version 2.3.0.9 Modify n 5% ▼ r 15% ▼ 15% ▼ 0% ▼ 0% ▼ 0% ▼ 10 2.25 ▼ A) 6 3	Set Output © Enable Auto Turn-on (© Enable Buzzer © Enable Boost Charge (© Enable	Trizzio Trizzio

This figure displays the forms for browsing.

5.5 Event Log



This display check the Event Log

📼 Event Log							
Search Type C All C Year Month C Date 2013 (Year 3 (Month 4 (Date Date Date Date Date Date Date Date							
Index	Time	Equipment Address	Event				
1	2013-03-04 16:58:00		Monitor software is open				
2	2013-03-04 17:04:46	1	Communication upbuilt				
3	2013-03-04 17:04:46	1	Standby Status				
4	2013-03-04 17:04:46	1	No battery				
5	2013-03-04 17:05:02	1	Non-Output				
6	2013-03-04 17:05:02	1	Recover from: No battery				
7	2013-03-04 17:05:05	1	Bypass Status				
8	2013-03-04 17:05:06	1	No battery				
9	2013-03-04 17:05:18	1	Mains Status				
10	2013-03-04 17:07:55	1	Recover from: No battery				
11	2013-03-04 17:17:52	1	Communication Error				
12	2013-03-04 17:17:53	1	Communication recovered				
13	2013-03-04 17:18:20	1	Communication Error				
14	2013-03-04 17:18:21	1	Communication recovered				
				~			
p		1		10			

This figure displays the event information of main monitor UPS. User can search the EventLog with the condition of year, month, date or address of equip. Users also can export all events with

*xls format.

5.6 DataLog

🗈 Data Log							
Search Type 2013 • Year 3 • Month 4 • Date Refresh Log Setting Specify Equipment Address: • Month * Date Export Clear Month Record							
Time Equip	ment Address InV-A (V)	InV-B (V)	InV-C (V)	OutV-A (V)	OutV-B (V)	OutV-C (V)	Load-A (%)
2013-03-04 17:05:10 1	231.5	231.2	232.0	230.0	232.8	235.6	0
2013-03-04 17:06:10 1	231.5	231.2	231.9	220.1	220.3	220.9	0
2013-03-04 17:07:10 1	231.8	231.2	231.9	220.1	220.5	220.6	0
2013-03-04 17:08:10 1	231.7	230.9	231.6	220.2	221.0	220.4	0
2013-03-04 17:09:10 1	231.7	231.1	231.7	220.2	220.8	220.2	0
2013-03-04 17:10:10 1	231.8	231.2	231.7	220.2	220.8	220.5	0
2013-03-04 17:11:10 1	231.8	231.2	231.7	220.2	221.0	220.5	0
2013-03-04 17:12:10 1	232.0	231.3	231.8	220.2	221.0	220.5	0
2013-03-04 17:13:10 1	232.0	231.5	231.9	220.1	221.0	220.6	0
2013-03-04 17:14:10 1	231.7	231.4	231.9	220.1	221.0	220.6	0
2013-03-04 17:15:10 1	231.5	231.5	231.9	220.2	221.0	220.5	0
2013-03-04 17:16:10 1	232.0	231.6	232.1	220.3	221.0	220.6	0
2013-03-04 17:17:10 1	232.2	231.7	232.1	220.1	221.0	220.6	0
2013-03-04 17:18:10 1	232.2	231.6	232.2	220.1	221.0	220.6	0
2013-03-04 17:19:10 1	231.9	231.3	232.0	220.1	220.5	220.6	0
2013-03-04 17:20:10 1	232.2	231.5	232.2	220.1	220.9	220.6	0
2013-03-04 17:21:10 1	232.4	231.5	232.3	220.0	220.9	220.6	0
2013-03-04 17:22:10 1	232.3	231.7	232.4	220.0	220.6	220.1	0
2013-03-04 17:23:10 1	232.5	231.8	232.3	220.1	220.8	220.3	0
							>

This figure displays the current data information of main monitor UPS. User can search the DataLog with the condition of year, month, date or address of equip. Users also can export all events with *xls format.

5.7 DataLog Set



User can set time to log the data information of main monitor UPS.

5.8 Equip Operation

5.8.1 Search

🗳 Search Equipment		
Search Equipment on RS485 network Searching Type C default C user-defined Range of Searched Address From 1 🗲 To 254 🗲		Q Search
Addresses that have been searched:	Addresses that will be Appended:	Addresses that system had existed:
>>	Equip Addr Equip Name	
	Let equipment name the same as its address	
	Clear List 🛛 🧐 Append To System	1

User can set the searching rage .User will search the online equip after click the search button and append the equip to system had existed area.

5.8.2 Append

🗱 Append Equipment	
Equipment Name:	
Append	Cancel

User can append the equip

5.8.3 Property



User can set the name of equip only.

5.8.4 Delete Control Language and Help



User can delete the selection in the area of Equip.

Ups inverter remote control (On, Off), Language has Chinese and English version. The following are some user friendly optional operation shortcuts icon!

