BMDM-S01 Software User's Guide



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1 Overview

BMDM-S01 is software of battery monitor data manager without a database and can be applied to H3G series products. The software is used to read data from the device, issued an order to modify the parameters, analyze data, and print and export functions.

Compared with other software of Huasu, BMDM-S01 has the following features:

- Usually used for group of not more than 100 strings, the software installation is simple and easy to maintain.
- Need to install software on each user terminal, supports up to three user terminals.
- Software without a database ,and all data directly read from the device.
- Usually used for the data center of the battery monitoring.

2 Software and Documentation

The followings should be prepared before installation.

NO.	ltem
1	BMDM-S01 software package
2	"BMDM-S01 User's Guide"
2	(this file)

3 Computer Requirements

3.1 Hardware Requirements

CPU:	P4	or higher
Memory:	512M	or higher
Hard disk:	100G	or higher

3.2 Software Requirements

One of the following operating systems should have been installed in the computer: Windows 2000、XP、VISTA or Windows 7

4 Installation of BMDM-S01

4.1 BMDM-S01 Software Package

BMDM-S01 software package includes an executable file of "BMDM-S01.exe" and the related data files.

4.2 Installation

By the following method to install the software:

- 1. Copy the package to the D drive or E under the root directory.
- 2. Enter the package directory, click "BMDM-S01.exe" file, click the right mouse button to create a desktop shortcut,.
- 3. The installation is completed.

Back 🔹 🕥 - 💋	5 ,0013 5 ,0013	arch 😥 Folders 🛄 🗸					
ress 🗀 E:\Battery monit	or manage s	oftware					
100 - 000 0 0 0		Name 🔺	Size	Туре	Date		
Rename this file Move this file Copy this file Publish this file F-mail this file Copy this fil	Web	□ BackUp □ Data ◎ DB.mdb ◎ DB.mdb ● MODBUSt ¶ MODBUSt Procollern ● Add to archive ● Compress and email ● Compress to "BMDM-S01.rar" and email Pin to Start menu	3,111 KB 669 KB 3 KB 826 KB	File Folder File Folder Application MDB File Text Document Application	2011 2011 2011 2011 2010 2009		
Other Places	۲	Send To		mpressed (zipped) Fo	lder		
🥪 Local Disk (E:) 🗎 My Documents		Cut Copy	🕑 De	sktop (create shortcu il Recipient	t)		
Shared Documents		Create Shortcut Delete Rename	My S DVI	My Documents DVD-RAM Drive (G:)			
S My Network Hotes				and a second second second			

Figure 4-2-1

4.3 Connect the Compute

Using a RS485 cable or a RS232 cable or a RJ45 cable, connect the computer to the device. The details please see product manuals.

5 Use Software

5.1 Start the BMDM-S01

Click "BMDM-S01 " on the desktop, the login appears as the following.

Quit	
	Quit

Figure 5-1-1

Enter the user and password specified, the default administrator user name and password are "admin".

5.2 Parameter Set

At first use or to add new strings, need to set parameters.

1. Click the button of **Parameter set** on the left up, the **Parameter set** appears as the following.

Pattery Monitoring System sin Balp			
🏓 😂 🔍 🕺 🥹 😔 🛛	×		
Parameter Set			×
🞁 User setup			
😴 Site setup			
Uzer: admin	11:58:44	Connect unsuccessfully	Battery Monitoring System

Figure 5-2-1

2. Click Site setup, the Site setup appears as the following.

Site setup						X
Site() String() Infomation()						
Size	Stime ID	(Dring parts)	Canica	China model	Shina heard	
	- i sargio	Shine(1	Shina manha	songmode	song cono	
Site Name	2	String02	String monitor	nul	nd	
Teel01	3	String03	String monitor	nul	nul	
Testor						
1						
1						
1						
(2) 全拼 3 · 1 · 20						

Figure 5-2-2

3. Click **site name** on the tree, then click the right mouse button and choose **Add site**.

🌃 Site setup	
Site(I) String(B) Infomation(<u>I</u>)
Site	
Site Nam	
	Add site(<u>T</u>)
	Refresh (<u>R</u>)
	Help (H)

Figure 5-2-3

The Site appears as the following, and then enters names or numbers by the following.

Site ID - enter the ID of the site as 1 or 2 or other numbers. Site ID does not allow repeat.

Site name - enter the name of the site.

Choose Comm or UDP - choose Comm if connecting the computer to the device by Serial port, and choose UDP by NET port.

Comm name - choose the port used to connect the device.

BPS: - choose 19200.

IP Address - enter the device's IP.

Port - enter 4001 or 4002 or 4003 according to the device setup.

Control module address - the default is 1.

Click Modify after finished, and a new site created.

ite				
neral				
Site Info -	Cito ID:	1		
	Sile ID.			
	Site name:	Test01		
Site commu	nication addr	ess		
C Comm			• UDP	
Comm na	me: COM1	-	IP Address	s 192.168.0.107
BPS:	19200	*	Port:	4002 -
Control mod	tule address:	1		
				1
			🖌 Modifu	Cancel

Figure 5-2-4

Click the new site name and move cursor to right side, and click the right mouse button to choose **Add string**.



Figure 5-2-5

The **String** appears as the following, and then enters names or numbers by the following.

String ID - enter the ID of the string, and the ID usually begins form 1.

String name - enter the name of the string.

Cell brand - enter the name of cell manufacturer

Cell model - enter the model of the cells

Cell use date - enter the date of cell put into operation

Qty - enter cell number of the string

Intercell resistance Qty - enter the number of intercell which set to be monitored. If the device don't monitor intercell the Qty should be enter 0.

Cell temperature Qty - enter the number of cell temperature which set to be monitored. If the device don't test it the Qty should be enter 0.

Rated capacity - enter the rated capacity of the cell.

Remark - anything else concerning the string may be entered.

Click **Modify** after finished, and a new string created.

String ID:	1
String name:	String01
Cell brand:	null
Cell model:	null
Cell use date:	2009-05-19 💌
Cell parameter	
Qty.:	43
Intercell resistance Qty.:	0
Cell temperature Qty.:	0
Rated capacity(AH):	2
emark null	

Figure 5-2-6

5.3 View Real-time Data

After finished Parameter set, Click the button of **String status** on the left up, the **String status** appears as the following.

The string status screen displays the strings last known status. A blue lamp means the measurement item is normal, and It will become a red lamp when alarm. This string status will be refreshed in about 30 seconds automatically.



Figure 5-3-1

Click the string name, the real-time data of this string appears. The data can be displayed as graph or histograms .the data also can be exported or printed.

							B	lealtime d	ata						
e name: date time:	Test01 11-08-23 08	.05:27	String name: Rst update time	String01 11-08-11	11:23:56	Oty: 4	3	R Export		5 Print	🖉 Refresh	L Co	e .		
ing												Cells			
String Vol	Current (A)	F Current (A)	Ambient1 (°C)	Ambient2 (°C)	Max Vol ID	Min Vol ID	Max Rst ID	Average deviation (mV)	n Mexi	mum deviation (mV)		ID	Intercell resistance (uΩ)	ID	Cell Tempera (°C)
- 445.3	0.0	0.0	27.8	27.7	24	40	2	10117		12606					
lls															
ID	Vol (V)	Rst (uΩ)	ID	Vol (V)	Rst (uΩ)	ID	Vol (M)	Rst (uΩ)	ID	Vol (V)	Rst (uΩ)				
001#	11.905	6438	012#	12.278	26949	0234	12.535	13899	034#	4.682	65535				
002#	11.747	65534	013#	12.454	13696	0244	12.609	11911	035#	5.347	65535				
003#	10.104	65534	014#	12.422	16293	0254	12.240	34479	036#	12.362	65535				
004#	12.111	28533	015#	12.222	25772	0264	12.495	27229	037#	12.347	846				
005#	12.229	30453	016#	9.315	65534	0274	12.502	16843	038#	12.340	833				
006#	12.076	65534	017#	12.354	35077	0284	12.537	15415	039#	9.985	1012				
007#	12.338	26641	018#	12.161	9054	0294	12.527	14797	040#	0.003	815				
008#	12.407	14334	019#	12.202	9198	0304	12.500	16621	041#	0.047	904				
009#	12.372	21563	020#	9.270	65534	0314	10.363	64469	042#	0.040	2784				
010#	12.418	18841	021#	11.842	54112	0324	12.528	16940	043#	0.041	709				
011#	12.323	38378	022#	12.601	13696	0334	4.142	65535							
Time: 450 449.6 440.5 447.5 5 446.5 5 446.5 5 446.5 6 443.4 443.4 442.3 441.3	86 (24 (80) (82) (82) (82) (82) (82) (82) (82) (82	Strin	ig Vol.	String	Vol — C	urrent						1	String Vol&Current	Vol	Rst

Figure 5-3-2

Realtime D	ata													_ 8
								Realtime d	ata					
Site name:	Test01		String name:	String0	1	0N: 4	3							
Update time:	11-08-23 0	8:05:27	Rst update tin	e: 11-08-1	1 11:23:56			Export		9 Print	Refresh	L Close		
String												Cells		
String Vol	Current	F Curren	t Ambient1	Ambient2	MarchallD	MinMallD	May Det ID	Average deviation	n Mex	imum deviation		Intercell resis	stance	Cell Temperatur
(Y)	(A)	(A)	(°C)	(°C)	Max YoriD	Min Vol ID	MOX PISTIL	(mV)		(W)		(υΩ)	iD.	(7)
445.3	0.0	0.0	27.8	27.7	24	40	2	10117		12606				
0-11-												1		
Cells	Vol	Bst		Vol	Bst		Vol	Ret		Vol	Bst			
ID	())	(uΩ)	ID	(V)	(uΩ)	ID	M	(uΩ)	ID	(V)	(uΩ)			
001#:	11.905	6438	012#	12.278	26949	0234	12.53	5 13899	034#	4.682	65535			
002#	11.747	65534	013#	12.454	13696	024/	12.60	9 11911	035#	5.347	65535			
003#	10.104	65534	4 014#	12.422	16293	0254	12.24	0 34479	036#	12.362	65535			
004#	12.111	28533	3 015#	12.222	25772	0264	12.49	5 27229	037#	12.347	846			
005#	12.229	30453	3 016#	9.315	65534	0274	12.50	2 16843	038#	12.340	833			
006#	12.076	65534	017#	12.354	35077	0284	12.53	7 15415	039#	9.985	1012			
007#	12.338	26641	018#	12.161	9054	0294	12.52	7 14797	040#	0.003	815			
008#	12.407	14334	4 019#	12.202	9198	0304	12.50	0 16621	041#	0.047	904			
009#	12.372	21563	3 020#	9.270	65534	0314	10.36	3 64469	042#	0.040	2784			
010#	12.418	18841	021#	11.842	54112	0324	12.52	8 16940	043#	0.041	709			
011#	12.323	38378	B 022#	12.601	13696	0334	4.142	65535						
D.		Vo										Oking Vol8 Ou	and I Val	- 04
15.84			n.									String VolaCur	rent Vol	Pist
14.4														
12.96														
11.52-														
10.00							- 111							
7.2							- 111							
5.76														
4.32														
2.88														
1.44														
012	2 3 4 5 6 7	8 9 10 11	12 13 14 15 16 17	8 19 20 21 22 2	3 24 25 26 27 2	8 29 30 31 32 3	3 34 35 36 37 38	39 40 41 42 43 44						

Figure5-3-3

5.4 View History Data

Click the button of **history data** on the left up, the **history data** appears as the following.



Figure 5-4-1

Click the items, the details will be appeared.



Figure 5-4-2

Cell Vol history				
Date/Time	String Vol(V)	Current(A)	Ambient("C)	<u> </u>
1 11-08-22 15:28:20	445.9	0.0	29.4	[]
2 11-08-22 16:08:13	446.0	0.0	29.5	
3 11-08-22 16:53:05	446.0	0.0	29.5	
4 11-08-22 17:32:59	445.8	0.0	29.5	
5 11-08-22 18:22:50	445.9	0.0	29.4	
6 11-08-22 19:02:43	445.8	0.0	29.3	
7 11-08-22 19:42:35	446.1	0.0	29.3	
ID Vol(V]			
1 11.9	109			
2 11.7	63			
3 10.2	106			
4 12.1	23			
5 12.2	35			
6 12.0	199			
7 12.3	143			
8 12.4	12			
9 12.3	177			
10 12.4	22			
11 12.3	28			
12 12.2	84			
13 12.4	59			
14 12.4	25			v
Export	B Print			Close

Figure 5-4-3

Alarm value	Alarm content	ID	Alarm type2	Alarm type1	Date/Time
7.202V	Cell Vol alarm	043	String exception	General	1-08-17 12:16:05
0.000V	Cell Vol alarm	044	String exception	General	1-08-17 12:16:05
488.8V	String Vol alarm	000	String exception	General	1-08-17 12:27:58
10.488V	Cell Vol alarm	003	String exception	General	1-08-17 12:27:58
9.795V	Cell Vol alarm	020	String exception	General	1-08-17 12:27:58
10.424V	Cell Vol alarm	031	String exception	General	1-08-17 12:27:58
4.171V	Cell Vol alarm	033	String exception	General	1-08-17 12:27:58
5.830V	Cell Vol alarm	034	String exception	General	1-08-17 12:27:58
5.285V	Cell Vol alarm	035	String exception	General	1-08-17 12:27:58
9.998V	Cell Vol alarm	039	String exception	General	1-08-17 12:27:58
5.422V	Cell Vol alarm	042	String exception	General	1-08-17 12:27:58
7.206V	Cell Vol alarm	043	String exception	General	1-08-17 12:27:58
0.000V	Cell Vol alarm	044	String exception	General	1-08-17 12:27:58
488.6V	String Vol alarm	000	String exception	General	1-08-17 12:43:44
10.484V	Cell Vol alarm	003	String exception	General	1-08-17 12:43:44
9.796V	Cell Vol alarm	020	String exception	General	1-08-17 12:43:44
10.420V	Cell Vol alarm	031	String exception	General	1-08-17 12:43:44

Figure 5-4-4

Date/Time	Alarm type1	Alarm type2	ID	Alarm content	Alarm value	
1-08-17 12:16:05	General	String exception	043	Cell Vol alarm	7.202V	
1-08-17 12:16:05	General	String exception	044	Cell Vol alarm	0.000V	
1-08-17 12:27:58	General	String exception	000	String Vol alarm	488.8V	
1-08-17 12:27:58	General	String exception	003	Cell Vol alarm	10.488V	
1-08-17 12:27:58	General	String exception	020	Cell Vol alarm	9.795V	
11-08-17 12:27:58	General	String exception	031	Cell Vol alarm	10.424V	
11-08-17 12:27:58	General	String exception	033	Cell Vol alarm	4.171V	
11-08-17 12:27:58	General	String exception	034	Cell Vol alarm	5.830V	
11-08-17 12:27:58	General	String exception	035	Cell Vol alarm	5.285V	
11-08-17 12:27:58	General	String exception	039	Cell Vol alarm	9.998V	
11-08-17 12:27:58	General	String exception	042	Cell Vol alarm	5.422V	
11-08-17 12:27:58	General	String exception	043	Cell Vol alarm	7.206V	
11-08-17 12:27:58	General	String exception	044	Cell Vol alarm	0.000V	
11-08-17 12:43:44	General	String exception	000	String Vol alarm	488.6V	
11-08-17 12:43:44	General	String exception	003	Cell Vol alarm	10.484V	
11-08-17 12:43:44	General	String exception	020	Cell Vol alarm	9.796V	
11-08-17 12:43:44	General	String exception	031	Cell Vol alarm	10.420V	

Figure 5-4-5

5.5 Cell Resistance Test

The resistance test will be performed once a month automatically. If a manual test needed, Click the button of **string test** on the left up, the **string test** appears as the following.



Figure 5-5-1

Click **Resistance**, the resistance test will be performed. It takes about 10 minutes to finish a whole resistance test for a string. After completed the test, the latest cell resistance data can be read in the real-time data page.

₩ Bst test	
Please waiting	
1	Cancel test

Figure 5-5-2

6 Trouble Shooting