APS5000 Upper Software Installation



APS 5000 Upper Software installation and use instructions

Install Software

Install the RS232 drive	er		
CH341SER (340芯片请安装这个)	2019/3/18 16:34	应用程序	238 KB
Unzip the host software	e package		
. Unzip the host software	e package	1.5.225	1525
·	2024/5/27 10:38	ZIP文件	13,218 КВ

PBms LV Tools

After unzip, find and open the software PBmsLVTools in the folder

当初 Microsoft.Windows.Shell.dll	2024/1/29 15:37	突望 加用程序扩展	大小 150 KB
Newtonsoft.Json.dll	2024/1/29 15:37	应用程序扩展	563 KB
C Newtonsoft.Json	2024/1/29 15:37	Microsoft Edge	551 KB
NModbus4.dll	2024/1/29 15:37	应用程序扩展	74 KB
C NModbus4	2024/1/29 15:37	Microsoft Edge	114 KB
Panuon.UI.Silver.dll	2024/1/29 15:40	应用程序扩展	703 KB
Panuon.UI.Silver.pdb	2024/1/29 15:40	PDB 文件	1,022 KB
PBmsLVTools	2024/1/29 15:40	应用程序	3,398 KB
PBmsLVTools.pdb	2024/1/29 15:40	PDB 文件	7,680 KB
System.Data.SQLite.dll	2024/1/29 15:37	应用程序扩展	401 KB
System.Windows.Interactivity.dll	2024/1/29 15:37	应用程序扩展	39 KB
C System.Windows.Interactivity	2024/1/29 15:37	Microsoft Edge	61 KB
iii unins000	2024/5/22 14:24	CAXA 公式曲线文	48 KB
💠 unins000	2024/5/22 14:24	应用程序	3,112 KB
Xceed.Wpf.AvalonDock.dll	2024/1/29 15:37	应用程序扩展	445 KB
S Xceed.Wpf.AvalonDock.Themes.Aer	2024/1/29 15:37	应用程序扩展	85 KB
Xceed.Wpf.AvalonDock.Themes.Met	2024/1/29 15:37	应用程序扩展	78 KB
Xceed.Wpf.AvalonDock.Themes.VS2	2024/1/29 15:37	应用程序扩展	83 KB

The main page of the host software

The main page of the host software

Bensl VToolsV0.64						
	RealTimeMo	nitor Paralle	rMonitor SaveRecord Ex	portRecord ParamSetting	SystemSetting Settin	g Tools
BatteryInfo			CurrentPACK			Y Adr 1 Y
TotalVoltage:	0	v	PACK:	1 *	Serial:	 Adr: 1 *
Current	0		Host		OpenSerial	StartMonitor Poll 12
500	0	~	Host		Obtribution	Post Contraction of Post Car
SOF	0	8	CTemperatures		SystemStatus(Only read)	
			Title	Temperature(*C)	CHGMOS	DSGMOS
RemainCapacity:	0	mAh	TCell1	0.0	CHGCurValid	Heating
FullCapacity:	0	mAh	TCell2	0.0		
CycleTimes:	0		TCell3	0.0	DSGCurValid	ACin
IndV1:	0	v	TCell4	0.0	LimitCurrent	Fully
	0	×	MOS T	0.0		,
IndC1:	0	A	ENV_T	0.0		
ingleBatteryVolta	25				WarmingStatu	
Number	Voltage(m	N) Balan	ed MaxVolt: 0	mV VoltDiff: 0 mV	None	
1	0					
2	0		MinVolt: 0	mV		
	0		 SwitchControl 		- ProtectStatu	
	0		CHGOFF	DSG OFF	None	
6	0					
7	0		Alarm Off	LED OFF		
8	0		Limit OFF	Svillock OFF		
9	0				MalfunctionStatu	
11	0		ForcedSleep		rione	
12	0					
13	0					
14	0					
15	0			-		
	0			Eex 沛城	Pass	

RS232 Communication Box

Connect the battery to the computer using an RS232 communication box, Check the COM port and address information, Ad. Consistent with the DIP switch address of the monitored battery.

F	RealTimeMo	nitor	ParallerMonit	tor SaveRecord	ExportRecord	ParamSetting	SystemSetting	Setting Tools		
Batteryinfo				CurrentPACK		-		COM12 T Adr. 1	-	
Tota/Voltage:	0	v		PACK:	1	*	Serial:	COM12 Adr: 1		
Current:	0	Α		Host		*	OperSeria	StartMonitor F	ol I	
SOC:	0	96								
SOFE	0	196		Temperatures			SystemStatus(On			
RemainCapacity:	0	mAh mAh	Tala Tam		perature("C)	CHGMOS DSGMC				
				TCell1		0.0	CHGO	aValid Heat	ing	
FullCapacity:	0	mAh		TCell2		0.0	DSGO	aValid ACin		
CycleTimes:	0	mAh V	TCell3		0.0		evalid O Ace			
IndV1:	0	× .	, .	TCell4		0.0	UmitC	urrent DEPully		
		0 V	MOS_T FNV_T		0.0					
IndC1:	0	A		ENV_T		0.0				
SingleBatteryVoltac	205						WarnningStatu			
Number	Voltage(m	(V)	Balanced	MaxVolt:	mV VoltD	Vm 0 thi	None			
1	0				_					
2	0			MinVolt	Vm					
3	0			 SwitchControl 			- ProtectStatu			
4	0						None			
	0			CHG OF		DSG OFF				
7	0			Alarm C	ff 👘	LED OFF				
8	0			Limit Of		SysLock OFF				
9	0						MalfunctionStatu			
10	0						None			
12	0									
13	0									
14	0									
15	0			-	-					
16	0			PAC	Eex	市助		Password @		

Select the POLL Option

First open the serial port, then start the monitoring. If to view parallel information, select the POLL option.



Monitors Data and Save to Database

Parelle monitors data in real time and supports export. Select Show Monitor to display the current data, Save to Database, and Export Data to export the current data. (The current data store has a capacity limit. If the capacity exceeds the limit, old data will be overwritten)

	RealTi	meMonito	r Paralle	Monitor Save	Record ExportRecord I	laramSetting Syste	mSetting	Setting Tools	
No	Date Time	PackNo	Durrent(A)	TotalVoltage(V)	RemainingCepacity(mAh	FullCepacity(mAh)	500(%)	SingleMaxVoltage(m)	i) SingleMir
1	2024/6/17 9:17:19	1	0	52.662	49660	103870	43	3293	3291
2	2024/6/17 9:17:21	1	0	52.662	49560	103870	43	3293	3291
	bowfdowitor	Gen							

BMS Record Saving

Save Record supports reading BMS stored data and BMS time calibration

	RealTim	neMonito	r Paraller	Aonitor SaveRe	cord ExportRecord Par	amSetting System	Setting	Setting Tools	
No	Date Time	PackNo	Current(A)	TotalVoltage(V)	RemainingCapacity(mAh)	FullCapacity(mAh)	SOC(%)	SingleMaxVoltage(mV)	Single
1	2024-6-16 18:9:8	1	0	52.656	44660	103870	43	3291	3291
2	2024-6-16 16:35:52	1	0	52.655	44660	103870	43	3291	3290
3	2024-6-16 15:32:16	1	0	52.654	44660	103870	43	3291	3290
4	2024-6-16 15:31:48	1	0	52.655	44660	103870	43	3291	3290
5	2024-6-16 15:18:49	1	0	52.634	44660	103870	43	3290	3288
6	2024-6-14 10:29:21	1	0	52.674	45380	103870	44	3293	3291
7	2024-6-14 9:51:44	1	0	52.682	45380	103870	44	3293	3291
8	2024-6-13 16:35:4	1	0	52.679	45380	103870	44	3293	3291
9	2024-6-13 16:33:31	1	0	52.678	45380	103870	44	3293	3291
10	2024-6-12 10:46:44	1	0	52.684	45380	103870	44	3293	3291
11	2024-6-8 16:34:43	1	0	52.593	45380	103870	44	3288	3286
12	2024-6-8 15:32:26	1	0	52.529	45380	103870	44	3284	3282
13	2024-6-8 14:38:10	1	0	52.814	55340	103870	53	3301	3300
14	2024-6-8 14:10:18	1	0	52.765	55340	103870	53	3298	3296
15	2024-6-8 8:41:28	1	0	52.833	55780	103870	54	3303	3301
16	2024-6-8 8:36:43	1	0	52.843	55780	103870	54	3303	3301
17	2024-6-7 20:24:25	1	0	52.846	55780	103870	54	3303	3301
0	opRead Continue	n Dalet	eRecord Ex	ortRecord Pause		Innov-MM-	dd HH m	m:ss ReadBMSTime Writ	wSurTim

BMS stored data

Export record can view the history of the Export Data operation and choose to export the BMS stored data.

RealTimeMonitor	ParallerMonitor	SaveRecord	ExportRecord	ParamSetting	SystemSetting	Setting	Tools		
Only keep the data of the last two mon						-			
TableName		SaveTime							
data20240301092318 data20240617091719		03/01/2024 09:2 06/17/2024 09:1	3:18 7:19						

Parameter Settings

Parameter Settings You can read and set related parameters.

	RealTime	eMonitor	ParallerMonito	r Save	Record ExportRecord	ParamSetting SystemSetting Setting	ng Tools	
	Alarm(V)	Protect(V)	ProtectRec(V)	IsEnable	ProtectDelay(ms)	CHGCurrent		^
CellOverCHG	3.60	3.65	3.33		1000	🗹 IsEnable		
CellOverDSG	2.75	2.50	3.10		1000	CHGCurrentWarnning(A)	105	
PackOverCHG	57.60	58.40	52.80		1000	CHGCurrentProtect(A)	110	
PackOverDSG	44.00	40.00	49.60		1000	CHGCurrentProtectDelay(ms)	1000	
	Alarm(°C)	Protect("C)	ProtectRec("C)	IsEnable				
CHG OT	45	50	45			BatteryParameter	55.000	^
CHG UT	5	0	5			Cut Off Voltage(V)	56.000	
DSG OT	60	65	60			Cut Off Current(mA)	2000	
DSG UT	-15	-20	-15			Low Battery Warnning(%)	5	
MOS OT	90	115	85			DSGCurrent		~
Amb OT	55	65	55			S IsEnable		
Amb UT	-15	-20	-15			DSGCurrentWarnning(A)	105	
						DSGCurrentProtect1(A)	110	
						DSGCurrentProtectDelay1(ms)	1000	
						DSGCurrentProtect2(A)	150	
						DSGCurrentProtectDelay2(ms)	500	
						Channel Country Destant Dark and Country 1	200	

System Setting

System Settings can set system parameters and protocol information. Select the corresponding CAN protocol and RS485 protocol.

ке	alTimeMoni	itor Par	allerMon	itor SaveRecord	ExportRecord	ParamSe	etting	SystemSetting	Setting	Tools		
Voltage(mV)			^	Cycle			^	Show Hidden				
BaseVoltage	0	Calibration		CycleTimes	0	W	/rite					
TotalVoltage	0	alibration		Productinfo			^					
Current(mA)			^	BMS ProductInfo		W	Irite					
ChargeCurrent	0	alibration	Reset	PACE ProductInfo		W	Irite					
ZeroCurrent	0	alibration		InverterProtocolS	atting		^					
DisChargeCurrent	0	alibration	Reset	CANProtocol	TBB_V128		*					
BMS Num Setting			^	485Protocol	PACE_MODBUS		*					
BatteryNum	0		Write	Read		Write						
CHGCurrentSetting			^				_					
StartUpCurrent(A)	0	Read	Write									
Limit Gear	Low		Write									
IntermitentCHGSet	ting		^									
IntermitentCHGLim			Write									
Electricity(mAh)			^									
RemainingCapacity	44660											
FullCapacity	103870											
DesignCapacity	100000											
Read		Write										

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