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文件版本: V1.0 22.6.11

功能简介

1.1. 产品概述

系统要求

CPU: 1GH 以上

内存: 1G 以上

显示分变率: 1360*768

系统版本: windows 10, windows 11

系统语言:简体中文或英文

- 2. RS485 通讯数据读取
- 2.1. 通讯波特率及连接

2.2. 打开软件所在目录找到 "BMS_Control.exe" 并打开

名称	修改日期	类型	大小
Drive	2021/11/13 21:03	文件夹	
📒 kerneldlls	2021/11/13 21:03	文件夹	
📒 Language	2021/11/13 21:03	文件夹	
BMS_Control.exe	2021/8/10 0:27	应用程序	20,084 KB
🔬 configure.ini	2021/11/16 9:42	配置设置	1 KB
🗟 ControlCAN.dll	2018/8/22 15:41	应用程序扩展	13 KB
🚳 Protocol.db	2021/10/31 19:44	Data Base File	972 KB

图 1: 目录文件

2.3. 点击设置/编辑菜单栏下设配置 或工具栏上配置图标

地 址:广东省深圳市宝安区沙井街道办宝安大道 8206 号 303 室





BMS Control 软件使用手册

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图 2: 软件界面

2.4. 接口选择及参数设置: 根据 BMS 串口信息选择对应配置后 "应用"

MBS Studie Version: VI.22 Product modal: Interface Type: Version: Oct312 Nurders_Software: Interfacetype Falsh Page Stie: Interfacetype	Radia Contraction of the second secon			ed s
INS ID: Addres: Ox 31 Refresh Tise: 1.0 🕃 S	© Settings Product Modal Interface class UART • Product Modal ECI6S 6000 •	UART CAN CONT Select		
Calibrate	Soun Address Derion Addres:On B	Ly Refresh UND ・ 温子信頼上台特正串行 開anfacturer.Nicrosoft 声励わせ:N/A Location:\\.UOMD Identifier:N/A Zentifier:N/A	Paudhais: 1900 • Patalia: 8 • Parity: None • StopBits: 1 • PlocControl: Hone • Local onho	Bik2 Bik1 Bik0
			Apply	

图 3 串口参数选择

电池信息数据 如下图 1: BMS 固件信息及参数校准 2: 功能选项卡 3 数据区 2.5.

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MS_Control Edit Language(原意)										- 0	×
BHS Studie Version: V1.22	O Fack Info	Graph									
Froduct model: BCI05_4320				A. 9 . 192		1		20.00		Start I	20
Nardware_Software: 0x6021 Rolab Rese Software: 0x6021	Name	•		Value	Units	Name	3524	Va	lue	Units	
INS ID: 43463357ffffff010005004a	Remaining	apacity 11.	44		Ah	Voltage 3	3524			mV	
Addres:Ox OB	FullCharge	apacity 40			Ah	Voltage 4	3524			mV	
Refresh Time: 1.0 C S	ChargingCu	irrent 20			A	Voltage 5	3524			mV	
Extension Cosmand	ChargingVo	oltage 42			v	Voltage 6	3524			mV	
Sync time To 1865	BatteryVolt	age 24.	664		v	Voltage 7	3522			mV	
156 CHG IMS Rest	Cycle_Coun	t 0			Cycle	Voltage 8	0			mV	
Calibrate	Bit Registers										
Calibrate OC Offset	Name	Value	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	BitO	1
A Appled Current	BatteryStat	us 0x0140	ACT	HEAT	CC_Offset	CAL_EN	PACK_CHG	WCS_KEY	LED_ON	COEV	
V Appled Voltage			WAKE	1987	Sleep	R.	FD	IR	cc	CF	
Save as Calibrate	BatteryAlar	m 0x0000	ALERT	P_DSG	REVC	REVC	CHG_UT	CHG_OT	OCC	COV	
			REVC	REVC	D\$G_UT	RCA	DSG_OT	SCD	OCD	CUV	
	BatterySafe	ty 0x0000	ALERT	P_DSG	REVC	REVC	CHG_UT	CHG_OT	OCC	COV	
			REVC	REVC	DSG_UT	RCA	DSG_OT	SCD	OCD	cuv	
	AFE Status	0x0003	REVC	REVC	CBEN	WDT	TWI	CHGING	DSGING	CHGR	
			and the second se	The Association			A CONTRACTOR OF	and the second se		and the second se	

图 4: 电池数据

CAN 通讯数据读取 3.

3.1. USBCAN 兼容性问题:

BMS_Contro 是以 ZLG 的 USBCAN II 基础上开发,理论上市面上兼容 ZLG 的 USBCAN 盒都可以使用,有 个别需要替换"ControlCAN.dll"文件才可以正常使用。"ControlCAN.dll"请向 USBCAN 盒的生产厂家索取。

例: 打开软件所在目录 BMS_Contro\Drive\创新-USBCAN-2A_drivers 找到 ControlCAN.dll 复制到 BMS

Contro 目录下替换即可正常使用。

BMS_Contro				- 0 ×	elti-USBCAN-2A_drivers				- 0
0 KM - 🕺 🛈	6 6 8 0 14 ma ⁻	= on			⊙ ana - 🔉 🕕	© ⊜ ⊜ 14 mm -	≡ an		
→ - + 🔛 BMS_Cont	ntro +	~ C P 部	R*BMS_Contro*		← → - ↑ 🐂 BM5_0	Contro > Drive > 创新-US8CAN-2A_drivers >	~ C P B	R*MIN-USBCAN-ZA	drivers"
• 快速访问	名称	作為日期	美型	大小	· 快速访问	68	標改日期	失型	大小
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个项目 遗中1个项目					2 1 10 11				



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3.2. 接口选择及参数设置:根据 BMS 串口信息选择对应配置后"应用"

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Regi										8	Save 1
tit.	Name		D	Value	Units	Name	3524	Val	ue	U	nits *
Settings						?	×			m	V
Product Model			HART CAN							m	V
Interface clas	CAN	•	Interface Typ							m	V
Product Model:	DC165_6000 ·		Salast Barias	1628/1430		Tadawi 0				m	V
Scan Addres	5		Select Device	USDCARE .	8	Index. 0	-			m	V
Device Addres:	Jac B		Interface Par	aneter						m	ν.
			Channel: 0 -								
			Baudrate: 250	• 30			1	Bit2	Bit1	Bit0	4
			TimeO: 01					WEINEY	100.00	COCV	
			Timel: 10							0	
			Time2:								
							Apply				
			REVC	REVC -	112.020	HCA -	1105.01				
	AFE Status	0x0003	REVC		02003						
			LCMO	REVC	REVC	REVC	REVC	1000,007	DSG_FET	CHG_FET	
	AFE Safety	0x0000	REVC	REVC				REVC	enc.	010	
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	Settings Product Hodel Interface clas Froduct Hodel: Scan Addres: Device Addres:	Vir And V	Preduct Model Interface class CAN Product Model: DC165_6000 + Sean Address Derice Addres: 0x B	Name Name Current O Settings Product Model: DCI65_6000 * Samadarss Device Address Device Address Device Address Interface In Device Address Device Address Device Address Device Address Device Address Device Interface Par Channel: Interface Inter	Name Value Name Value © Settings Interface class Product Modal: DC165,6000 • Sam Address Salect Derice: Berdrate: 2008 • Interface Parameter Channel: Channel: 0 Iterface for a sevent Iterface 10 Iterfa	Name Value Units © Settings Interface 0 A Product Hodal CAS • Interface 1 Stan Address Select Device: USECANC • Som Address • • • • Burdrate: (SOE) • • • Timest: (C • • • • Image: • • • • • • Image: • • • • • • • Image: • • • • • • • • • • • • • <td>Name Value Units Name Name Value Units Name Current 0 A Voltage 2 Settings ? ? Yotkage 2 Product Model CLISS.GOO * </td> <td>Name Value Units Name © Current 0 A © Voltage 2 3524 O Settings ? X Product Hodal DLISS_6000 * Select Derice: USECANZ * Index: 0 * Stan Address Baudr etc: ESECANZ * Index: 0 * Baudr etc: ESECANZ * Index: 0 * Baudr etc: ESEC 0 Interface Interface Eseco Eseco Interface 0 REVC REVC REVC REVC REVC REVC</td> <td>Name Value Units Name Value Name Value Units Name Value Settings ? X Product Modal Close of the set of the se</td> <td>Name Value Units Name Value Correct 0 A Voltage 2 3524 Settings 7 X X X Product Hodal Litterface 7 type Salect Device: USBCARE Index: 0 0 Sean Address Baubrets: 250K Index: 0 0 0 0 Beubrets: 250K Index: 0 0 0 0 0 0 Interface Parameter Channel: 0 Baubrets: 250K 0 <td< td=""><td>Name Value Units Name Value U Name Value Units Name Value U Voltage Z 3524 m M M Value U Product Hodal U CAN Interface Type Index: 0 N M</td></td<></td>	Name Value Units Name Name Value Units Name Current 0 A Voltage 2 Settings ? ? Yotkage 2 Product Model CLISS.GOO *	Name Value Units Name © Current 0 A © Voltage 2 3524 O Settings ? X Product Hodal DLISS_6000 * Select Derice: USECANZ * Index: 0 * Stan Address Baudr etc: ESECANZ * Index: 0 * Baudr etc: ESECANZ * Index: 0 * Baudr etc: ESEC 0 Interface Interface Eseco Eseco Interface 0 REVC REVC REVC REVC REVC REVC	Name Value Units Name Value Name Value Units Name Value Settings ? X Product Modal Close of the set of the se	Name Value Units Name Value Correct 0 A Voltage 2 3524 Settings 7 X X X Product Hodal Litterface 7 type Salect Device: USBCARE Index: 0 0 Sean Address Baubrets: 250K Index: 0 0 0 0 Beubrets: 250K Index: 0 0 0 0 0 0 Interface Parameter Channel: 0 Baubrets: 250K 0 <td< td=""><td>Name Value Units Name Value U Name Value Units Name Value U Voltage Z 3524 m M M Value U Product Hodal U CAN Interface Type Index: 0 N M</td></td<>	Name Value Units Name Value U Name Value Units Name Value U Voltage Z 3524 m M M Value U Product Hodal U CAN Interface Type Index: 0 N M

图 5: CAN 参数选择

3.3. 电池信息数据 如下图 1: BMS 固件信息及参数校准 2: 功能选项卡 3数据区

EMES Studie Version: V1.22	1 1	🔘 Park Info 🛄 🤇	îr aph								
Product model: BC105_4320	Regi										
Interior 1990 - CAN Version: Ox4320 Nardware_Software Ox6021 Falsh Page Szie Ox6220	ait.	Name Current		0	alue	Units A	Name	3524	Va	lue	L
BMS ID: 43463357ffffff010005004a	Cor	RemainingCap	acity	11.44		Ah	Voltage 3	3524			
Addres: Ox OB	-	FullChargeCap	acity	40		Ah	Voltage 4	3524			
Refresh Time: 1.0 C S	3	ChargingCurre	ent	20		A	Voltage 5	3524			
Extension Command	a la	ChargingVolta	ige	42		v	Voltage 6	3524			
Sync time To IMS	ň	BatteryVoltage	e	24.664		v	Voltage 7	3522			
ISG CHG BMS Rest		Cycle_Count		0		Cycle	Voltage 8	0			n
Calibrate	. in the second s	Bit Registers				1. 1.	1				
Calibrate CC Offset	7.0	Name	Valu	e Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
A Appled Current	8	BatteryStatus	0x0140	ACT	HEAT	CC_Offset	CAL EN	PACK CHG	WCS KEY	LED.ON	COOV
V Appled Voltage				WAKE	iner .	Sleep	RC	FD	IR	cc	CF .
Save as Calibrate		BatteryAlarm	0x0000	ALERT	P DSG	REVC	REVC	CHG UT	CHG OT	occ	COV
				REVC	REVC	DSG-UT	RCA	DSG OT	SCD	OCD	CUV
		RatterySafety	0,0000	ALERT	P. DSG	REVC	REVC	CHG.UT	CHG OT	orc	COV
				REVC	REVC	DSG-UT	BCA	DSG OT	SCD	och	CUN
		AFE Status	0x0003	REVC	REVC	CBEN	WDT	TWI	CHGING	DSGING	CHGR
		Contraction of the second s		LOAD	REVC	REVC	REVC	REVC	PCHG FET	THE OWNER	CHARLEN THE
		ALE Safet	0-0000	REVE	REVC	REVC	REVC	PEUC	REVE	OTC	ITC
		- Are salety	0.0000	neve	HEY'S	ALC YC	ODC:	DET.	HEYC .	010	CON.
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图 6: 电池数据

- 5 BMS 参数读取及修改:
- 5.1 参数修改步骤 1.先读出 BMS 内部配置→2.修改参数项→3.写入参数→4.BMS Rest 生效;如下图所示

or 🔤 🧮 🔀					~ ~
MS Studio Version: V1.22	isters				1 3 Inport Export 2 Read Vrit
Product model: DC105_4320 Interface Type: CAN Version: 0x4320	III SI	BS_Config	Name	Value	Units
Nardware_Software: 0x6021 Falsh Pare Srie: 0x0200	H A	FE_Register	SBS_Config		
HMS ID: 43463357fffffff010005004+	S EI	DV Table	ChargingCurrent	20	A
Addres: Ox OB		alibration Bas Gauging	Design_Capacity	40	Ah
Refresh Time: 1.0 \$ S	b Si	afetyAlarm	FullChargeCapacity	40	Ah
Extension Command	li end	ED Support	Design_Voltage	37	v
Sync time To BMS			ChargingVoltage	42 (2)	v
DSG CHG BMS Rest (4)	_		☑ BatteryMode	0x0000	HEX
Calibrate	-i -		Cycle_Count	0	Cycle
Calibrate CC Offset	trogr		Ø UART_BRG	9.6	kbps
A Appled Current	1		CAN_BRG	250	kbps
V Appled Voltage			SleepTime	10	S
Save as Calibrate			Addres	0x000B	Hex
			AFE_Config		
			AFE_Current_Offset	5	-
			AFE_CC_Zero_Offset	0	-
			AFE_Sense_Resistor	1	mΩ
			AFE_Int Temper Offset 1	0	к
			AFE_Int Temper Offset 2	0	к
			AFE_Int Temper Offset 3	0	к
			AFE_Cell Num	7	num
			173		

图 7:参数修改步骤

5.2 配置参数导入及导出:

5.2.1 导入: ①点击导入按钮→②选择导入的参数文件→③打开后执行写入操作



图 8:参数导入

6 异常纪录读取:①点读取按按钮等待数据读取完成

										1
IME Studio Version: VI.22	sters									Export 2
Froduct model: DC105_4320 Interface Type: CAN Version: Ox4320	Ingi	Index 1153	Time 22/03/15 16:49:59	Current 0.183	BatterySafety 0x0000	MAX_Voltage 3530	MIN_Voltage 3527	MAX_Temper 27.8	MIN_Temper 27.7	BFLAG 0x00
Hardware_Software: 0x6021 Falsh Fage Szie: 0x0200	afia a	1154	22/03/15 16:49:59	0.244	0x0000	3530	3527	27.8	27.7	0x01
HMS ID: 43463357ffffff010005004a	Con	1155	22/03/15 16:49:59	0.244	0x0000	3530	3527	27.8	27.7	0x00
Addres:0x 0B	-	1156	22/03/15 16:50:00	0.183	0x0000	3530	3527	27.8	27.7	0x01
Refresh Time: 1.0 2 S	der	1157	22/03/15 16:50:00	0.244	0x0000	3530	3527	27.8	27.7	0x00
Extension Command	Caler	1158	22/03/15 16:50:00	0.244	0x0000	3530	3527	27.8	27.7	0x01
Sync time To BMS	Ē	1159	22/03/15 16:50:00	0.244	0x0000	3530	3527	27.8	27.7	0x00
DSG CHG BMS Rest	7	1160	22/03/15 16:50:01	0.244	0x0000	3530	3527	27.8	27.7	0x01
Calibrate	i me	1161	22/03/15 16:50:01	0.244	0x0000	3530	3527	27.8	27.7	0x00
Calibrate CC Offset	Prog	1162	22/03/15 16:50:02	0.244	0x0000	3528	3527	27.8	27.7	0x01
A Appled Current	影	1163	22/03/15 16:50:02	0.244	0x0000	3528	3527	27.8	27.7	0x00
V Appled Voltage		1164	22/03/15 16:50:02	0.244	0x0000	3528	3527	27.8	27.7	0x01
Save as Calibrate		1165	22/03/15 16:50:02	0.244	0x0000	3528	3527	27.8	27.7	0x00
		1166	22/03/15 16:50:02	0.244	0x0000	3530	3527	27.8	27.7	0x01
		1167	22/03/15 16:50:02	0.244	0x0000	3530	3527	27.8	27.7	0x00
		1168	22/03/15 16:50:04	0.244	0x0000	3530	3527	27.8	27.7	0x01
		1169	22/03/15 16:50:04	0.244	0x0000	3530	3527	27.8	27.7	0x00
		1170	22/03/15 16:50:04	0.244	0x0000	3530	3527	27.8	27.7	0x01
		1171	22/03/15 16:50:04	0.183	0x0000	3530	3527	27.8	27.7	0x00
		1172	22/03/15 16:50:04	0.244	0x0000	5308	3335	27.8	27.7	0x01
		1173	22/03/15 16:50:04	0.244	0×0000	3530	3527	27.8	27.7	0x00

图 9: 异常记录读取





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7 BMS 软件更新: ①点击浏览按钮→②选择更新的 Bin 程序文件→③打开文件→④点击更新按钮

) 💷 🔚 🔀						
		· Promotion #11.				
B Studio Version: V1.22	P Sefect	t frogramming rile				0
Product model: DC105_4320	Reg					() or owser
ersion: 0x4320	8.8					(4) al Program
fardware_Software: 0x6021	.2					
IMS TD: 43463357ffffff010005004a	Conf					
ddres 0x 0B	-	No mar de		_		
efresh Tine: 1.0 0 S	Select Programmin	sg File			<u> </u>	
And a formal	$\leftrightarrow \rightarrow \cdot \uparrow$	🚞 « APP + MDK + Objects	v c 21	記索"Objects"		
Constitution Loomand						
O Sync time To BMS	组织 • 新建文件》	夹		≣ • □	0	
DSG CHG BMS Rest	🔁 圖片	名称	修改日期	类型	*	
librate	□ 文档	APP(10串2井双开关法国) (2) #	in 2022/2/18.9:13	BIN 文件		
Calibrate CC Offset	业 下载	APP.bin	2022/4/9 15:24	BIN 文件		
A Appled Current		0				
V Appled Voltage	Windows (C:)					
Save as Calibrate	- Data (D:)					
	🛁 新加卷 (E:)	1				
	🛋 新加州 (F:)	1				
	🐲 网络	1				
	DESKTOP-9AD					
		APP hin	Evral/	thin)	-	
		CTEQ(()). AFF.00	Excell	, Diny		
rgister				100		_
egister				100		_
sgister				1100		
^{sgister}):程序更新		-/				_
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gister 9: 程序更新 Control		~		100 ⁻		- 0
gister): 程序更新 Control		~				- 0
gister : 程序更新 Control fr Language(調知)		~				- 0
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gister 2:程序更新 Control fr [anguage(周期)	Schee 9 E./A	ct Programsing File hroh/Source/ADU/Troject/4322/APF/ADUA	kjett/M7.bin			- 0
gister : 程序更新 Control St Language(质面) Studio Version: V1.22 Studio Version: V1.22 Studio Version: C105_4320 attrifue Tops: CM	sales ti ti ti ti ti ti ti ti	et Programming File Fred/Source/ACU/Troject/4552/APP/MDEA	bjeett/AP7.bin			- 0
gister : 程序更新 Control If Language(画面) Endio Version: V1.22 Studio Version: V1.22 Studio Version: V1.22 Studio Control Control	sabet ag ag E	et Programming File Fred/Seurce/ACU/Project/4322/APP/MDK/	kjeets/M?.bia			- 0 Prose 2 tropa
gister : 程序更新 Control It Language(面面) Email Difference: V1.22 Studie Version: V1.22	Selec Get U	ct Programming File Prok/Source/ACM/Project/4322/APP/MDK/	hjett/MP.bjn			- O Prosser C Tropue
gister Control fit Language(画面) Fit Language(ma) Fit Language	Selec Selec	et Programsing File Prok/Source/ACM/Troject/4322/APP/MORA	hjsett/MP. bin			- 0 Prorser Tropm
gister 2:程序更新 Control fi [anguage(面) ● ● ● ● ● Studie Version: V1.22 redeot modal: DC105_4020 atorface Type: CAS writen: 0x4020 writen: 0x400 writen: 0x400	Cabin Parties Cabin Parties	et Programning File Prok/Source/ACM/Project/4322/APP/MDH/A	kjeett/AN7. bin			- 0 Troser Strope
gister	te Caffie La Caf	et Frogramming File Fred/Source/ACM/Froject/4322/ARF/MDRA	hjeets/AF7.bin			- 0 Prose Strope
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图 10:更新进度条

地 址:广东省深圳市宝安区沙井街道办宝安大道 8206 号 303 室

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