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FAQ-DBL-06: UA Web UI Function Wizard – Data Log -

How to set up remote database function: Modbus TCP / MySQL(MariaDB) ? (Use TPD-703 and DL-302)

UA series supports Data Logger function. Its Local Data Logger can save I/O data log to local CSV file, and record I/O status at the scheduled time. Furthermore, users can set the time interval of which CSV file to generate and divide on the local side. Its Remote Database can import I/O data collection directly into the remote SQL database, e.g. MS SQL, MySQL, MariaDB ..., for the Big Data analysis.

UA Data Logger supports to collect devices I/O status and then directly write into remote side MySQL /MariaDB Database for the Big Data analysis.

The connection steps for MySQL and MariaDB is the same, so here will introduce them together. The Modbus / MySQL and MariaDB Remote Database settings include Modbus RTU and TCP. Here will introduce **Modbus TCP** and multiple modules as the setting sample.





Note: The hardware/network connection methods please see the UA Manual Chapter 2.

When UA series controller connects the Modbus TCP modules (via Ethernet, as the picture), user can choose the item [Modbus TCP / MySQL(MariaDB)] of the "Data Log" in the Function Wizard.

(Master) Modbus RTU / Local Data Logger	
(Master) Modbus TCP / Local Data Logger	
(Master) Modbus RTU / MS SQL	
(Master) Modbus TCP / MS SQL	
MQTT / MS SQL	
(Master) Modbus RTU / MySQL (MariaDB)	
(Master) Modbus TCP / MySQL(MariaDB)	
MQTT / MySQL(MariaDB)	

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[Step Box]: The Step Box of t it auto enters the The user just nee rightly.	he [Modbus TC l e first step setti ds to follow the	P / MySQ ng page (` "Step Box	L(MariaDB] has The step with x" step-by-step	s the step a bold up and the	os below. Wh nderline mear n can comple	en enabling ns it is the c te the projec	the Step Box, urrent step.). ct quickly and
Module Setting >	MySQL / MariaDB (Connection Se	etting ≽ Apply C	onnection &	Enable Recording	Module ≽ Si	ave Project ≽
	ICF	P DAS Co.,	Ltd. Technical	Docume	nt		

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• Step 1. Moc	lule Setting						
Module Settir	ng > MySQL / Mar	iaDB Connec	tion Setting 🔈 A	pply Connec	ction & Enable Rec	ording Module	Save Project

It auto-enter the first step, **Step 1 [Module Setting]** of the UI setting. This page is for setting the communication values with the connected modules. First check the port that connected with the module, and each module can give a name (Default name: Name). Click [\oplus] button could add a new module. When connecting two modules, set up twice to the different modules in the same way. and then click each [Edit] button to configure the module content and the Modbus mapping table.



Add modules one by one, in this example, add **TPD-703** and **DL-302** one by one (**DL-302** can be directly selected from ICP DAS Module List, and the system will automatically set it). Please click [**Edit**] button one by one, to enter and set each Module content.

Modbus	Modbus TCP Module L	ist	
RTU Module (Master) TCP Module (Master)	LAN	LAN	
ASCII Module (Master)	Load ICPDAS Module	Select The Module	Update ICPDAS Module List
MQTT	Select All No.	*Module Name / Nickname	L +2 Edit
MQTT Module		Name	4.13.
EtherNet/IP			
ICPDAS Module	1	TPD-703	Edit
Internal Internal Module	2	DL-302	Edit
	Copy	ove	< 1 / 1 >
	Remove all	Save	

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PD-703's [Modu	ule Conten	t Setting] page	e: set up the	e moo	dule and	the Modbus i	napping tab	le:
Module Conte	ent Setting							
	No.	1						
	Module Name	TPD-703						
IP 192 168 .			85 . 20	(Example: T	PD-703	
	Port 502		502		[IP] 192	.168.85.20 (b	y user case)	
	Slave ID	1						
	Timeout(ms)	500			[Modbu	us Mapping T	able Setting]
Po	Iling Rate(ms)	500			Data Mo Start Ad	odel: 03 Hold Idress: 0	ing Registers	5(4x)
Modbus Mapp	oing Table	Setting			Data Nu	Imber: 30 S-bit Short		
	Data Model	01 Coil Status(0x)	~		\rightarrow Click	[Add]		
	Start Address	0						
	Data Number	1						
	Create Tables	Add						

Module Content	Setting						
No.	Γhe module number in the module list (Not editable here)						
Module Name	Give a name, e.g. model number or name. Default: Name.						
Slave ID	Set the module Slave ID of the UA. (Range: 1 ~ 247)						
Timeout	Set the timeout value for the module. Default: 500 ms						
Modbus Mapping	Table Setting						
Data Model	System provides 4 Modbus data models01 Coil Status(0x)"01" ~ "04" for mapping to address of02 Input Status(1x)DO, DI, AO and AI. (ex. 01: DO channels, 02: DI, 03: AO, 04: AI)03 Holding Registers(4x) 04 Input Registers(3x)						
Start Address	The start address of the Modbus command. Note: the Start Address of UA is bass on 0, even if some modules are bass on 1, here it needs to follow UA to set bass on 0.						
Data Number	The number of the Modbus address. Need to give enough number for the DO, DI, AO, AI channels of the module. Default: 1.						
Туре	This item only when the data model is 03 or 04. Choose the suitable data type: 16-bit Short, 16-bit Unsigned Short, 32-bit Long, 32-bit Unsigned Long, 32-bit Float, 64-bit Double.						
Create Tables	Click [Add] button, it will add a table in the Modbus mapping table.						

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The finished Modbus Mapping Table as below is in order of mapping DO, DI, AO & AI.

Address:

Display and edit the Modbus Mapping Table.

Modbus Mapping Tab	le	Addr	ress	Ni	ckname	Scaling	Bitwise
Coil Status(0x) Input Status(1x)			Holdir	ng Re	gisters(4x)	Input Reg	gisters(3x)
			Addr	ess	0		
			Num	ber	30		
			Тур	e	Short		
					Edit		
		OK	Cance	ł			

Modbus Mapping	Table – Address Setting
Address Setting	The "Address Setting" page of the Modbus Mapping Table
Nickname Setting	Click can switch to the The "Nickname Setting" page of the Modbus
	Mapping Table. (Next page)
Modbus Mapping	Coil Status(0x): Mapping to DO Modbus address
Table	Input Status(1x): Mapping to DI Modbus address
	Holding Registers(4x): Mapping to AO Modbus address
	Input Registers(3x): Mapping to AI Modbus address
Address	The start address of the Modbus command. Default: 0. <u>Note:</u> the Start
	Address of UA is bass on 0, even if some modules are bass on 1, here it
	needs to follow UA to set bass on 0.
Number	The number of the Modbus address. Need to give enough number for
	the DO, DI, AO, AI channels of the module. At least 1.
Туре	DO/DI type: Bool (Boolean)
	AO/AI type: depend on setting of [Modbus Mapping Table Setting]
Edit	Click to change the address and Number.
Delete	Click to delete this address table.
Save	Click to save and exit this table editing.
Cancel	Click to exit without saving and back to the module list page.
ОК	Click to save this page settings and back to the module list page.

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Nickname: Setting the varia	ble nickn	ame and	l descript	ion.				
_	Modbus I	Mapping	Table	Addr	ess Ni	ckname So	aling Bitv	vise
0	1 Coil St	atus(0x)						
		Table	Display	how Hide				
	Address	Vari	able name	Data T	ype	Des	cription	
0	2 Input S	tatus(1x	.)					
		Table	Display	how Hide				
	Address	Vari	able name	Data T	уре	Des	cription	
0	3 Holding	g Registe	ers(4x)					
		Table	Display	how Hide				
	Address	Variabl	e name	Data Type	Swap	D	escription	
	0 10	c_101_DO0		Short]
	1 [c_101_DO1		Short]
	2 [c_101_DO2		Short]
	3	: 101 DO3	dofina th	Short	the ear	a a t a d]
_	4	I/O mo	dule nan	ne for easy id	entificati	on.]
_	5 [c_101_DO5		Short]

Modbus Mappir	Nodbus Mapping Table – Nickname Setting						
Modbus	Coil Status(0x): Mapping to DO Modbus address						
Mapping Table	Input Status(1x): Mapping to DI Modbus address						
	Holding Registers(4x): Mapping to AO Modbus address						
	Input Registers(3x): Mapping to AI Modbus address						
Table Display	Click [Show] to display all fields, click [Hide] to hide some fields.						
Address	Modbus address. System auto arrange.						
Variable name	The variable name of the mapping address. Default: Tag0 and auto						
	arrange the number. User can define the name.						
Data Type	Display data type of the variable. (Not editable)						
Swap	Check to swap the byte order (Lo-Hi/Hi-Lo) for 4-byte or 8-byte.						
Description	Write a note for this variable.						
ОК	Click to save this page settings and back to the module list page.						

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uthor	Eva Li Version 1.0.0		1.0.0	Date	2021, 04	Page	7 / 19
L-302's [Module Module Cont	e Content Se tent Setting	etting] page: s	et up the m	odule and t	he Modbus n	napping ta	ble:
	No.	2					
	Module Name	DL-302			Examp	le: DL-302	
	IP	0.0.	0.0	[IP] 1	92.168.81.25	51 (by user	case)
	Port	502		Becau	use DL-302 is	selected f	rom the
	Slave ID	1	1 ICP DAS module list, the system auto-setup the following items,				
	Timeout(ms)	500		users	do not need	to add:	,,
F	Polling Rate(ms)	500		[Mod	dbus Mappin	g Table Set	tting]
Modbus Map	oping Table S	Setting		Data Start	Model: 04 In Address: 0	put Regist	ers(3x)
	Data Model	04 Input Register	s(3x) 🗸	Data	Number: 6		
	Start Address	0		Туре:	: 16-bit Short		
	Data Number	6					
	Туре	16-bit Short	~				
	Create Tables	Add					

Module Content	Setting	
No.	The module number in the module list (Not ed	itable here)
Module Name	Give a name, e.g. model number or name. Defa	ault: Name.
Slave ID	Set the module Slave ID of the UA. (Range: 1 \sim	247)
Timeout	Set the timeout value for the module. Default:	500 ms
Modbus Mapping	g Table Setting	
Data Model	System provides 4 Modbus data models "01" ~ "04" for mapping to address of DO, DI, AO and AI. (ex. 01: DO channels, 02: DI, 03: AO, 04: AI)	01 Coil Status(0x) 02 Input Status(1x) 03 Holding Registers(4x) 04 Input Registers(3x)
Start Address	The start address of the Modbus command. No bass on 0, even if some modules are bass on 1, set bass on 0.	ote: the Start Address of UA is here it needs to follow UA to
Data Number	The number of the Modbus address. Need to g DO, DI, AO, AI channels of the module. Default	ive enough number for the : 1.
Туре	This item only when the data model is 03 or 04 type: 16-bit Short, 16-bit Unsigned Short, 32-bi 32-bit Float, 64-bit Double.	. Choose the suitable data it Long, 32-bit Unsigned Long,
Create Tables	Click [Add] button, it will add a table in the Mo	dbus mapping table.

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The finished Modbus Mapping Table as below is in order of mapping DO, DI, AO & AI.

Address:

Display and edit the Modbus Mapping Table.

Modbus Mapping T	able	Address	Nickname	Scaling	Bitwise
Coil Status(0x)	Input Status(1x)) Holdi	ng Registers(4x)	Input Reg	jisters(3x)
				Address	0
				Number Type	6 Short
					Edit
		OK	el		

Modbus Mapping	Table – Address Setting
Address Setting	The "Address Setting" page of the Modbus Mapping Table
Nickname Setting	Click can switch to the The "Nickname Setting" page of the Modbus
	Mapping Table. (Next page)
Modbus Mapping	Coil Status(0x): Mapping to DO Modbus address
Table	Input Status(1x): Mapping to DI Modbus address
	Holding Registers(4x): Mapping to AO Modbus address
	Input Registers(3x): Mapping to AI Modbus address
Address	The start address of the Modbus command. Default: 0. <u>Note:</u> the Start
	Address of UA is bass on 0, even if some modules are bass on 1, here it
	needs to follow UA to set bass on 0.
Number	The number of the Modbus address. Need to give enough number for
	the DO, DI, AO, AI channels of the module. At least 1.
Туре	DO/DI type: Bool (Boolean)
	AO/AI type: depend on setting of [Modbus Mapping Table Setting]
Edit	Click to change the address and Number.
Delete	Click to delete this address table.
Save	Click to save and exit this table editing.
Cancel	Click to exit without saving and back to the module list page.
ОК	Click to save this page settings and back to the module list page.

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:kname: ting the varia	able nickn	name and	descript	ion.							
C	Modbus	s Mapping	Table	Add	ess Nic	kname	Scal	ing Bitwise	е		
	01 Coil S)1 Coil Status(0x)									
		Table	Display	Show Hide							
	Address	Vari	able name	Data 1	уре		Descrip	otion			
	02 Input	Status(1x	.)								
		Table	Display	Show Hide							
	Address	Vari	able name	Data 1	уре		Descrip	otion			
	03 Holdi	ng Registe	ers(4x)								
		Table	Display	Show Hide							
	Address	Variabl	e name	Data Type	Swap		Desc	cription			
	04 Input	Registers	(3x)								
		Table	Display	Show Hide							
	Address	Variabl	e name	Data Type	Swap		Desc	cription			
	0	CO2		Short							
	1	Relative_hu	midity	Short							
	2	Temperature	e_Celsius	Short							
	3	Temperature	e_Fahrenheit	Short							
	4	Dew_point_t	temperature_	Short							

	Holding Registers(4x): Mapping to AO Modbus address
	Input Registers(3x): Mapping to AI Modbus address
Table Display	Click [Show] to display all fields, click [Hide] to hide some fields.
Address	Modbus address. System auto arrange.
Variable name	The variable name of the mapping address. Default: Tag0 and auto
	arrange the number. User can define the name.
Data Type	Display data type of the variable. (Not editable)
Swap	Check to swap the byte order (Lo-Hi/Hi-Lo) for 4-byte or 8-byte.
Description	Write a note for this variable.
ОК	Click to save this page settings and back to the module list page.
	·

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Scaling:

Scaling is only available in the AI/AO settings of Modbus RTU/TCP. When the variable value needs to be scaled or converted before output, click the "Advanced Setting" button of the variable on the Scaling page, input the Min./Max./Offset of the Reference/Output items, add a description, and check "Enable" box, The Scaling conversion function will be activated.

WOODU	s wap	ping table		Addre	ss Nick	name	Scaling	Bitwise
03 Hold	ing Re	gisters(4x)					
		Table Display	Show Hide					
Address	; 1	Reference	Output		Scaling	Enabled	Desc	ription
04 Input	t Regis	ters(3x)						
		Table Display	Show Hide]				
Address	Re	ference	Output		Scaling	Enabled	Des	cription
0	CO2 Min. Max.	0 10000	Scale_CO2Min.0Max.100Offset0	00	Hide Detail	✓	CO2	
1	Relative	humidity	Scale_Relative_	humidity	Show Detail	~	Relative_hu	midity
2	Tempera	ture_Celsius	Scale_Temperate	ure_Cels	Show Detail	✓	Temperature	_Celsius
3	Tempera Min. Max.	ture_Fahrent 0 10000	Scale_TemperateMin.0Max.100Offset0	ure_Fah	Hide Detail	•	Temperature	_Fahrenheit
4	Dew_poi	nt_temperatu	Scale_Dew_poin	t_tempe	Show Detail			
5	Dew_poi	nt_temperatu	Scale_Dew_poin	t_temp∈	Show Detail			
			ſ					

Modbus Mapping	g Table – Scaling
Modbus	Holding Registers(4x): Mapping to AO Modbus address
Monning Table	Input Registers(3x): Mapping to AI Modbus address
wapping rable	Scaling do not support 01 Coil Status(0x):DO & 02 Input Status(1x):DI
Table Display	Click [Show] to display all fields, click [Hide] to hide some fields.
Address	Modbus address. System auto arrange.
Reference	The I/O variable of the Modbus address.
Output	The scaling variable for scaling output. User can define the variable name.
	Click [Show Detail] to set up the Scaling parameters, and click [Hide Detail] to hide the parameters.
Scaling	Fill in the Min/Max range values of the source in the Reference column. Fill in the
	Min/Max range values after scaling in the Output column. If needs offset, fill the
	offset value in the Offset item. Remember check "Enable" box.
Enable	Check the box of the variable can enable just that variable for scaling.
Description	Write a note for this variable.
ОК	Click to save this page settings and back to the module list page.

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Bitwise: Bitwise is only ava the value of the sp the value of the bi	iilable in the Al becified bit, fill i t can be output	/AO setti n the vari to the fil	ings of Modbus able name in th led variable.	s RTU/TC	P. When the died Bit# of the	data needed required ac	to take out dress, and
Modbus	Mapping Tabl	9	Address	Nick	name Sca	ling Bitv	vise
03 Holding	g Registers(4)	K)					
	Table Display	Show	Hide				
Addr	ess		Reference			Bitwise	
04 Input F	Registers(3x)						
	Table Display	Show	Hide				
Addres	SS	Re	ference		Bitv	wise	
0		CO2 Bit0 a Bit2 t Bit4 Bit6 Bit8 Bit10 Bit12 Bit14			Hide I Bit1 Bit3 Bit5 Bit7 Bit9 Bit11 Bit13 Bit15	Detail	
Modbus Mappir	ng Table – Bitw	ise					
Modbus Mapping Table	Holding Reg Input Registr Bitwise do n Bitwise do n	isters(4x): ers(3x): N ot suppo	: Mapping to A Iapping to AI N rt 01 Coil Statu rts 32-bit Float	O Modbu lodbus a ls(0x):DC : & 64-bi	us address ddress D & O2 Input S t Double data	tatus(1x):DI types.	
Table Display	Click [Show]	to displa	y all fields, click	[Hide] t	o hide some fi	elds.	
Address	Modbus add	Iress. Syst	em auto arrang	ge.			
Reference	The Bit# var	ables of t	the Modbus add	dress.		1 4 4 4 4 4	the D:+ '
Bitwise	Bitwise Bitwis						The value in
ОК	Click to save	this page	e settings and b	ack to th	e module list	page.	
			Itd Technical	Docume	nt		

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Step 2. MvS	OL/MariaD	B Connection	Setting				
Module Settir	ng 📏 MySQL	/ MariaDB Connecti	on Setting 🔈 A	opply Connect	tion & Enable Re	cording Module 🔰	Save Projec
Click the nex	kt step, and e	enter the Step	2 [MySQL/N	lariaDB C	onnection S	etting] of the	UI setting.
This page is	for setting th	ne connecting	remote datal	base.			
We select th	e "Modbus ⁻	TCP / MySQL/I	MariaDB" at t	the beginr	ning, so this	step will auto	enter the
[Advanced S	Setting > Dat	a Logger > My	SQL/MariaD	B] Setting	ξ.		
System Sett	ing Module	e Setting LoT	Platform Setting	Conver	rt Setting 4	dvanced Setting	Longer S
oystem bet	ang module	o ootung 101	nationin Octully	CONVEN	r ooung 7	araneed betally	Loggero
I/O Status	File Setting						
Advanced Settin	ng MySQL / Ma	ariaDB					_
PID Operatio	n	MvSQL / M	ariaDB List	1. E Ex:	ICPDAS Cvc	le DateTime	
IFTTT Condi	tion Trigger	Remove		dentification I	Name	St	atus
Data Loggor			<u></u>				
Local Data L	oqqer			DAS_Cycle_E	DateTime		
MS SQL			Remove]		<	0/0>
MySOL / Ma	ria DB	. CIICK +		,			
	IIaDD				Save		
		/-					
Add a datab	ase identification that the formula is the formula in the formula is the formula in the formula	ation name (E) SOI /MariaDB	(: ICPUAS_Cy Connection S	cie_Date	i ime) as bel	ow, and then	CIICK [Edit]
				presente pr	~DC·		
MySQL /	MariaDB	List					
Demous		I de atifica - st	News		0		E alta
Remove		Identificati	on Name		Stat	us	Edit
Remove						2	
		Name				3]

If set up a wrong module, user can click the box in the left side of the module number and click the [Remove] button to delete the module.

Edit

Enable

ICPDAS_Cycle_DateTime

uthor Eva Li Version 1.0.0 Date 2021, 04 Page 13 / 19 hySQL / MariaDB Connection Settings can set up the database relational setting. MySQL / MariaDB Connection Settings Juntabase Name CPDAS Juntabase Name CPDAS Database Name CPDAS Juntabase Name CPDAS Juntabase Name Juntamace Name Juntabase Name Juntabase	Athor Eva Li Version 1.0.0 Date 2021, 04 Page 13/19 ySQL / MariaDB Connection Settings] can set up the database relational setting. Image: Setting Part of the interval set of the interval setting in the Name Image: Setting Part of the interval setting interesetting interval sethe	lassification	UA-Serie	es English Funct	ion Wizard F	AQ-dbl-06	5		
hysQL / MariaDB Connection Settings] can set up the database relational setting. MySQL / MariaDB Connection Settings Identification Name Identification Name IP Patabase Name IP IP Teable Name User defined name of the remote database. IP Teable Name User defined name to identify the database. It Table Name IP Teable Name Interval Seconds Database Name The name of the remote database. Table Name The table name of the remote database. IP The server IP and name of the remote database. IP The login name of the remote database. Port The login password of the remote database. Password The login password of the remote database. Data Change: Only record when the data has changed. Interval Seconds Setup the interval time to save the I/O data to the remote database. Database Name The bory to connect with database. Port The s	ysQL / MariaDB Connection Settings] can set up the database relational setting. MySQL / MariaDB Connection Settings Identification Name Image: Test Connection Test Connection Image: Test Connection	uthor	Eva Li	Version	1.0.0	Date	2021, 04	Page	13 / 19
MySQL / MariaDB Connection Settings Identification Name Database Name IP 19 192 160 66 11 Pert 3306 Account Interval Seconds IP The Server IP and name of the remote database. IP The Server IP and name of the remote database. Port The login password of the remote database. Password The login password of the remote database. Log Mode	MySQL / MariaDB Connection Settings Identification Name ICPDAS_Cycle_DataTime Database Name IP 192 168.86 11 Part 192 168.86 11 Part 109 Mode Cycle Part 109 Mode Cycle Interval Seconds 5 Database Name Interval Seconds Test Connection Connection Test Connection Ortic Table Name The name of the remote database. If it does not exist, it will add a new database with this name. Table Name The table name of the remote database. If it does not exist, it will add a new table with this name. IP The Server IP and name of the remote database. Port The port to connect with database. Default: 3306 (for MySQL/MariaDB) Account The login password of the remote database. Password The login password of the remote database. Password The login password of the remote database. Log Mode Cycle: Record one log data at the interval time set below. Da	lySQL / Marial	DB Conne	ction Settings] c	an set up the	e database	relational set	ting.	
Identification Name ICPOAS_Cycle_DateTime Database Name ICPOAS Table Name Module_Al_DateTime IP 192 168 85 11 Pett 3306 Account chris Password Interval Seconds Log Mode Cycle Interval Seconds 5 Date Time Format Interval Seconds Test Connection Content Settings Identification Name User defined name to identify the database. Database Name The name of the remote database. If it does not exist, it will add a new database with this name. Table Name The table name of the remote database. IP The Server IP and name of the remote database. Port The login name of the remote database. Interval Seconds Set up the interval time to at at the interval time set below. Data Change: Only record when the data has changed. Interval Seconds Set up the interval time to two [Columns] or combine the data and time into two [Columns] or combine the data and time into two [Columns] or combine the date and time in one [Column]. Enable Check to esparate the date and time into two [Columns] or combine the date and time into two [Columns] or combine the date and time in one [Column].	Identification Name ICPDAS_Cycle_DateTime Database Name ICPDAS_Cycle_DateTime IP 192 163.85.11 Port 3306 Account Account Log Mode Cycle Password			MySQL / Mar	iaDB Conn	ection Se	ttings		
Database Name ICCPDAS IP 192.168.05.11 IP 192.168.05.11 IP 192.168.05.11 IP 192.168.05.11 IP 100.000 Interval Seconds Interval Seconds IP The server IP and name of the remote database. IP The Server IP and name of the remote database. Iog Mode Cycle: Record one log data at the interval time set below. Database Seconds Date Thereword Where The database. Interval Seconds Set up the interval time to save the I/O data to the remote database. IP The login password of the remote database. Interval Seconds Set up the interval time to	Database Name ICPDAS Table Name Module_All_DateTime IP 192.168.85.11 Port 3306 Account chris Imerval Seconds 5 Date Time Format [Vyyyy-MM-dd HH mm ss] Imerval Seconds 5 Date Time Format [Vyyyy-MM-dd HH mm ss] Imerval Seconds 5 Date Time Format [Vyyyy-MM-dd HH mm ss] Identification Name User defined name to identify the database. Database Name The name of the remote database. If it does not exist, it will add a new database with this name. Table Name The table name of the remote database. If it does not exist, it will add a new database with this name. IP The Server IP and name of the remote database. Port The port to connect with database. Default: 3306 (for MySQL/MariaDB) Account The login password of the remote database. Password The login password of the remote database. Log Mode Cycle: Record one log data at the interval time set below. Data Logge: Only record when the data has changed. Interval Second. Date Time Format Select to separate the date and time into two [Columns] or combine the date and ti			Ident	tification Name	ICPDAS_C	ycle_DateTime		
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• Step 3. Apply	y Connec	tion &	Enable R	ecording N	Iodule			
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Author	Eva Li	Version	1.0.0	Date	2021, 04	Page	18 / 19

The connection screen view of the MariaDB Remote Database.

1. MariaDB database screen view: Date/Time column separated (reference)

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