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• How to save the UA collected data into MariaDB in NAS and then show the trend chart in InduSoft? (Take NAS DS712+ as an example)

UA series products of ICP DAS provide a useful service to transfer TCP/RTU data into the database. The NAS can be used to store the database data, and then by using InduSoft can retrieve the data to manage the database easily. Due to the time format written by UA being different from the reading format of InduSoft, here is how InduSoft read data.

(In this example, we use UA-5231M-4GE / Windows 10 64 bits OS / MariaDB 10 Database / NAS DS712+ / DL-302 with Modbus RTU protocol)



This FAQ will introduce:

- 1. How to Create MariaDB Environment in NAS?
- 2. How to set up UA products to save Modbus RTU data into the Database?
- 3. After transferring UA data into Database, how to combine the Date and Time columns?
- 4. How InduSoft read data in the Database?



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l in tl	he passw	ord to insta	all the pack	kage.				
	MariaDB	10 - Install						×
	Set u	ıp MariaDB	Password do password ler characters, a passwords o	es not meet th ngth is 10 chan and special cha r using userna	ne current str racters and m aracters; it m me as passw	ength rules. Th nust include mi nust also exclud ord.	he minimum ixed case, num de common	neric
	New pa	assword:	•					_
	Confirr	m password:						
	Port:		3307					
							Novt	
	MariaDB 1 Confi	.0 - Install rm settings	5				Next	×
	MariaDB 1 Confi The wiz	1 0 - Install rm setting s zard will apply f	S the following	settings and s	tart to install	the package.	Next	×
	MariaDB 1 Confi The wiz Item	1 0 - Install rm setting zard will apply f	S the following Value	settings and s	tart to install	the package.		×
	MariaDB 1 Confi The wiz Item Packa	. 0 - Install rm settings zard will apply s ge name	S the following Value Maria	settings and s e aDB 10	tart to install	the package.	Next	×
	MariaDB 1 Confi The wiz Item Packa Newes	1 0 - Install rm settings zard will apply f ge name st online versio	s the following Value Maria on 10.3.	settings and s aDB 10 .32-1040	tart to install	the package.	Next	×
	MariaDB 1 Confi The wiz Item Packa Newes Develo	1 0 - Install rm settings zard will apply f ge name st online versio oper	s the following Value Maria on 10.3. Maria	settings and s aDB 10 .32-1040 aDB Foundatio	tart to install n	the package.		×
	MariaDB 1 Confi The wiz Item Packa Newes Develo	0 - Install rm settings zard will apply f ge name st online versio oper her	s the following Value Maria on 10.3. Maria Syno	settings and s aDB 10 .32-1040 aDB Foundatio logy Inc.	tart to install	the package.		×
	MariaDB 1 Confi The wiz Item Packa Newes Develo Publis Descri	0 - Install rm settings zard will apply f ge name st online versio oper her iption	s the following Value Maria on 10.3. Maria one o data comp	settings and s aDB 10 .32-1040 aDB Foundatio logy Inc. aDB is a commo of the most wi pase manager patible with My	tart to install n nunity-develo dely used op nent system (SQL and allo	the package. ped fork of My en-source rela (RDBMS). It is ows users to ef	/SQL and is tional highly fortlessly	×
	MariaDB 1 Confi The wiz Item Packa Newes Develo Publis Descri	10 - Install rm settings zard will apply f ge name st online versio oper her iption n after installat	the following s Value Maria on 10.3. Maria Syno Maria one c datab comp tion	settings and s aDB 10 .32-1040 aDB Foundatio logy Inc. aDB is a commo of the most wi pase manager patible with My	tart to install n nunity-develo dely used op nent system /SQL and allo	the package. ped fork of My en-source rela (RDBMS). It is wws users to ef	/SQL and is tional highly fortlessly	X
	MariaDB 1 Confi The wiz Item Packa Newes Develo Publis Descri	0 - Install rm settings zard will apply i ge name st online versio oper her iption	S the following s Value Maria on 10.3. Maria one c datal comp tion	settings and s aDB 10 .32-1040 aDB Foundatio logy Inc. aDB is a commo of the most wi pase managen patible with My	n nunity-develo dely used op nent system /SQL and allo	the package. ped fork of My en-source rela (RDBMS). It is ows users to ef Back	/SQL and is tional highly fortlessly	

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un the Maria	OB 10.						
		Q s	earch				
	n _						
	ř 📒						\geq
Control I	Panel File	Station	DSM Help		Package Center	Resour Monite	rce or
_		~				-	7
			Δ			0	
Storage M	anager Univer	rsal Search	Active Insight		Log Center	OAuth Se	ervice
		•					
Socurity A		The contar	SAN Managor				
Security P			SAN Manager	n E			
heck the [Ena	ble TCP/IP co	nnectior	n] and click [A	apply].			
Г	🔏 MariaDB 10				?	- ×	
	User Account ar	nd Databa	se				
	Select the followin	ig action					
	Change Passwor	rd Rese	t root password	Reset D	atabase		
	Information						
	Enable TCP/IP	connection	i (i)				
	Port:		3307				
	Domain Socket:	/١	run/mysqld/mysql	d.sock			
					_	.	
					く	ן ל	
				Rese	t Appl		
L							

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In the [All Pa	icka	ges], select [j	ohpMyA	dmin] and cl	ick on t	he [Install].		
[S	Package Ce	nter]
	<	> C () Search					
	2	Installed	_	(4) pol	pMyridmin	phpMyAdr Utilities	nin	
	:	All Package	S			Install		
L	J.	Beta Packa	ges				•	1
If the firewall	l is (enabled, go t	o [Contr I Panel	ol Panel] and	d then tl	he [Security]	to set it up).
S		File Shai	ring				Q	Search
Packag Center	ie r			S				
	ł	1 Connect	rolder	File Service	s l	2 2 2	Domain	/LDAP
Control Pa	anel				ſ	V	>_	
		External	Access	Network	L	Security	Terminal	& SNMP
File Stati	ion	System						
		ICI	P DAS Co.,	, Ltd. Technical	Docume	ent		

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Control Panel							? — 🗆 X
Q Search	Security Ac	count Firewa	all Protection Certi	ficate Adva	anced		
∧ File Sharing	General						
5 Shared Folder	Enable fire	wall 1	r i				
5 File Services	Enable fire	wall notification	S				
<mark>≗</mark> User & Group	Notify me	when apps or se	ervices are blocked by the	e firewall and	provide the option to u	nblock that service o	or app. 2
Domain/LDAP	Firewall Profi	le					
∧ Connectivity	Customize you	r firewall profile.					
💊 External Access	Firewall Profile	:	default				▼ Edit Rules
🏫 Network							
Security							
Frofile name: 1 Freevall Rules Create Edit	de Delete	Ports 2 All Select f	from a list of built-	in applicati	ons	3 Select]
Enabled	Ports	Custom	1			Custom	
		Source IP					
		Specific	: IP			Select	
		O Locatio	n			Select	
		Action					
	_	 Allow 		Deny			
Note: If no rules i	n "All interfaces	Enabled	d				
Note: You can dra	g and drop the		et.				
					C	Cancel	ОК
	ICI	P DAS Co.,	, Ltd. Technical	Docume	nt		

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Add the Maria	DB 10 to t	he Allow list.						×
	- Selected	Applications		Ports		Descr	ription	
		Web Station a	nd We	80		HTTP		
		Web Station a	nd We	443		HTTP	S	
		UPNP IGD		55001,	55002	UPNP	IGD	
		Hybrid Share		26500-	26700	Hybri	d Share	
		MariaDB 10		3307		MySQ	ΣL	
		Windows file s	erver	137, 13	38, 139,	445, CIFS		
		WS-Discovery		5357		WS-T	ransfer	
		WS-Discovery		3702		WS-D)iscovery	
		iSCSI Service		3260, 3	3261, 32	62 iSCSI	Service	
		Advanced I I IN	l renli	3261		Δdvar	nced I Nyre	
						Cancel	ОК	
Control Panel Q Search Edit Profile "defau	Securi	ity Account Firew	all Protec	tion Certi	ficate Adv	vanced X		? — 🗆 X
Profile name:	default							
Firewall Rules						t	o unblock that ser	vice or app.
Create Edit	Delete			All int	erfaces	•		
Enabled	Ports MariaDB 10	Protocol	Sou All	rce IP		Action		
Note: If no rules i Note: You can dra	n "All interfaces" are g and drop the rule:	e matched, rules in each s to rearrange the order.	interface wi	l be matched top have hig Co	I. Jher priorities	1 items	Reset	Edit Rules
		ICP DAS Co.,	, Ltd. Te	chnical	Docume	ent		

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After settings,	click the Me	enu icon on	the left top,	and rur	n the phpMy	Admin.	
		Q s	earch				
Storage Mar	nager Ur	niversal Search	Active Insig	nt	Log Center	OAuth	Service
Security Ad	visor S	upport Center	SAN Manage	er	MariaDB 10	Web 5	Station
phpMyAdm phpMyAdm	nin						
		ICP DAS Co.	, Ltd. Technical	Docume	ent		



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Add User acco	unts, allow an	y host to	be [%], and s	set [pass	sword].		
	Server: MariaDB 10 Databases Add USET action	o ol 🚯 sta count	atus 🔳 User ac	counts	Export 🛃	Import 🥜 Se	tt
	User name:	Jse text field	✓ chris		(1)		
	Host name:	Any host	∽ %		⊚(2)		
	Password:	Jse text field	~ ······	****	Strength:	Weak	
	Re-type:		••••••••	•••	(3)		
Aut	hentication plugin		Native	AySQL authe	entication ~		
Ge	nerate password:	Generate					
Database [Perr	nission] settin	g, check	[Check All], a	and click	< [Go].		-
Note	: MySQL privilege names are expres	sed in English.					
G	 Data SELECT INSERT UPDATE DELETE FILE CREATE ALTER INDEX CREATE CREATE R ALTER RO EXECUTE CREATE RO EXECUTE CREATE NO EVENT TRIGGER 	emporary tables W OUTINE IEW	Administration GRANT SUPER PROCESS RELOAD SHUTDOWN SHOW DATABASES LOCK TABLES REFERENCES REPLICATION CLIENT REPLICATION SLAVE CREATE USER	Resource I Note: Setting to MAX QUERIES MAX UPDATES MAX CONNECT MAX USER_CO SSL © REQUIRE S © REQUIRE S © SPECIFIEI REQUIRE REQUIRE REQUIRE	Iimits these options to 0 (zero) removes 5 PER HOUR 0 fions PER HOUR 0 fions PER HOUR 0 NNNECTIONS 0 NONE SSL SSL9 CIPHER SUBJECT	s the limit.	
	IC	P DAS Co.,	, Ltd. Technical	Docume	ent		

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2. How to se	et up UA pro	oducts 1	o save	Modbus	RTU data	into the D	atabase?
Enter http://19. with the defaul	2.168.255.1 in t Web UI acco	the URL ount/pas	bar and sword ro	after the W ot/root.	/eb UI login	page appea	irs, log in
ICP DAS	UA-2200/5200 IIoT Communicati CP DAS CO,. LTD.) on Server		Username : [ru Password : [• Language : [E	oot ••• Inglish Login		
After successfu (LAN1)] to char	I login, go to nge the netwo	[System ork settin	Setting] Igs accor	=> [Netwo ding to the	ork Setting] actual netv	=> [Netwo ork environ	'k Setting ment.
I/O Status	File Setting	g	y 101				, avan.
System Setting	Network Set	ting Netv	vork Se	ettina (LA	N1)		
Time Setting	g		Conne	ection Mode	Specify	an IP address	;
Network Set	tting			IP	192	68 . 85	
Boot	tting			Mask	255	255 . 0	.0
COM Port Ir	nterface Setting	I		Gateway	192	68 . 1]. 1
Web Secure	9					Sav	/e
	ICI	P DAS Co.	, Ltd. Tech	nnical Docum	ent		

Author Carol Hsu Version 1.0.2 Date 2023,8 Page 12/45 After re-entering the page, select [(Master) Modbus RTU / MySQL(MariaDB)] from the menu in the upper right corner. Image: Control of the contr	Classification	UA-Series Engl	ish FAQ-I	Dev-005								
After re-entering the page, select [(Master) Modbus RTU / MySQL(MariaDB)] from the neuron in the upper right corner. Image: A the page of the pag	Author	Carol Hsu	Version	1.0.2	Date	2023,8	Page	12 / 45				
(Master) Modbus TOP / MySQL(MariaDB) MQTT / MySQL(MariaDB) Simply follow the steps on the screen to set up and complete your project! Controller COM Port Setting Module Setting MySQL / MariaDB Connection Setting Apply Connection & Enable Recording Module Setter Run the project COM Port settings are based on the DL-302 as an example. System Setting Module Setting Example of DL-302 setting Advanced File Setting Convert Setting Convert Setting Advanced File Setting Controller Service Setting Controller Service Setting Review Setting Data Bits Bits Image: Network Setting Web Secure Image: Network Setting Review Setting Review Stop Bits I bit Image: Review Setting Review Stop Bits I bit Image: Review Setting Review Stop Bits I bit Image: Review Setting Review Stop Bits I bit	After re-entering the page, select [(Master) Modbus RTU / MySQL(MariaDB)] from the menu in the upper right corner. (Master) Modbus RTU / MySQL(MariaDB) (Master) Modbus ASCII / MQTT JSON Internal / OPC UA Module Connecting to Azure (Master) Modbus RTU / Azure (Master) Modbus ASCII / Azure (Master) Modbus ASCII / Azure Data Log (Master) Modbus RTU / Local Data Logger (Master) Modbus RTU / Local Data Logger (Master) Modbus RTU / MS SQL (Master) Modbus RTU / MS SQL (Maste											
Simply follow the steps on the screen to set up and complete your project!		(Master) Mo (Master) Mo MQTT / My	odbus RTU odbus TCP SQL(Marial	<mark>/ MySQL(MariaDB)</mark> / MySQL(MariaDB) DB))							
Controller COM Port Setting Module Setting MySQL / MariaDB Connection Setting Apply Connection & Enable Recording Module Save Project Run the project COM Port settings are based on the DL-302 as an example. System Setting Module Setting Tor Platform Setting Convert Setting Advanced Government Setting Resetting Comport Interface Setting Controller Service Setting Comport Interface Setting Baud Rate Geoo Network Setting COM Port Interface Setting Baud Rate Geoo Bott Data Bits & Bits COM Port Interface Setting Parity None Web Secure Stop Bits 1 bit Polling Rate(ms) 5000 Save	Simply follow t	the steps on th	e screen	n to set up and	comp	olete your pro	oject!					
System Setting COM Port Interface Setting Time Setting Serial Port Network Setting Baud Rate Boot Data Bits COM Port Interface Setting Parity Web Secure Stop Bits It Polling Rate(ms) Source Stop Bits	Controlle Apply Co COM Port setti	er COM Port Setting onnection & Enable F ings are based ystem Setting M O Status File Se	Recording Modu on the I odule Settin	Ine Setting > My Nodule > Save F DL-302 as an e g IoT Platform S	Project xamp Setting	Run the proj	ect g Advanced	15				
Controller Service Setting Time Setting Network Setting Boot COM Port Interface Setting Web Secure COM Port Interface Setting Web Secure COM Port Interface Setting Parity None Polling Rate(ms) 5000 Save	Syst	tem Setting COM Po	rt Interface Se	etting	pie o							
Time Setting Network Setting Account Setting Boot COM Port Interface Setting Web Secure Image: Stop Bits Image: Stop Bits Image: Dot Stop Bits Image: Sto	Co	ontroller Service Setti	ng CC	M Port Interfac	e Sett	ing Page 🦊						
Account Setting Boot COM Port Interface Setting Web Secure Stop Bits 1 Data Bits 8 bits Parity None Polling Rate(ms) Save	Tin	ne Setting		Seria	al Port	ttyO2	~					
Boot COM Port Interface Setting Web Secure Stop Bits 1 bit Polling Rate(ms) Save	Ac	count Setting		Baud	d Rate	9600	~					
COM Port Interface Setting Web Secure Stop Bits Polling Rate(ms) Save ICD DAG Construction	Во	pot		Da	ta Bits	8 bits	~					
Web Secure Stop Bits 1 bit Polling Rate(ms) 5000 Save	co	OM Port Interface Set	ting		Parity	None	~					
Polling Rate(ms) 5000	VVe	Web Secure Stop Bits 1 bit ~										
		Polling Rate(ms) 5000										
				L		Sa	ve	1				

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r	•										
	Address: Sets the	e address f	for a module.								
	Default: Range: (Range: $0 \sim 255$									
-	Protocol: Sets the	rotocol: Sets the communication protocol.									
	- Modbus	sRTU (defa	ault)								
	- DCON	ChkSum: u v	ses DCON prote alidation feature	ocol and e	enables checksu	m					
-	Baud Rate										
	Default: Support	9600 Baud Rate	: 1200/ 2400/ 48 115200 (unit: b	300/ 9600/ ps)	/ 19200/ 38400/	57600/					
-	Parity			. ,							
	Default: Support	N,8,1 format: N8	1, N82, E81, O8	1							
	Response Delay	(ms): Sets	the delay time nding the data	between r	eceiving the cor	mmand					
-	Default:	0 ms									
	Range: 0) ~ 30 (unit	: ms)								
	Save: Saves the	modificatio	n and returns to	the Settin	igs menu.						
-	All the char	nges take e	effect immediate	ly after sa	aving changes.						
L	Skip. Returns to t	ine Setting:		saving any	y changes.						
System Setting	Module Setting	Io I Platform	Setting Conve	rt Setting	Advanced Setting	Logger S	etting				
I/O Status Fil	e Setting		1.	Select	[Serial Por	tj					
Module Setting MRI	U Module (Master)										
RTU Module (Master) Modbus	s RTU Mo	dule List								
TCP Module (Master)	Sei	rial Port ttyO2		~						
ASCII Module (Mast	er)	Load ICPDAS	Module Select Th	e Module	∽ Upda	ate ICPDAS Mo	dule List				
MQTT	Select All	No.	*Mod	ule Name / N	ickname		Edit				
MQTT Module		1 v	Name			2 Ent	or Namo				
EtherNet/IP				,							
ICPDAS Module	T	Сору	Remove								
Internal	3.Selec	ct to ad	d	Save	4		avej				

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System Setting	Module Setting	IoT Platform	Setting	Convert S	Setting	Advanced Se	etting Logge	Setting
I/O Status File	Setting							
Module Setting RTU	Module (Master)							
Modbus RTU Module (Master)	Modbus	RTU Mod	dule L	ist				
TCP Module (Master)		Ser	ial Port	ttyO2		~		
ASCII Module (Master	L	oad ICPDAS I	Module	Select The M	lodule	~	Update ICPDAS I	Module List
MQTT	Select All	No.		*Module	Name / N	ickname		Edit
MQTT Module	· 2	~		Name				
EtherNet/IP ICPDAS Module		1			Name			Edit
Internal		Сору	Remo	ve			< 1 / 1	
Internal Module	Remove all				Save			
Modbus Ma	Module Name Slave ID Timeout(ms) Write Retry pping Table	Name 1 500 1 Setting						
	Data Model	01 Coi	l Statu	ıs(0x)	~	·		
	Start Address	0					Set it accore Modbus Ma	ding to the apping Table,
	Data Number	1					Provided in manual, and	the module d click [Add]
	Create Tables	Add						
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Module Conten	t Setting					
No.	The module number in the module list (N	lot editable here)				
Module Name	Give a name, e.g. model number or nam	e. Default: Name.				
Slave ID	Set the module Slave ID of the UA. (Ran	ge: 1 ~ 247)				
Timeout	Set the timeout value for the module. Default: 500 ms					
Modbus Mapping Table Setting						
Data Model	System provides 4 Modbus data models	01 Coil Status(0x)				
	"01" ~ "04" for mapping to address of	02 Input Status(1x)				
	DO, DI, AO and AI. (ex. 01: DO	03 Holding Registers(4x)				
	channels, 02: DI, 03: AO, 04: AI)	04 Input Registers(3x)				
Start Address	The start address of the Modbus comma	nd. <u>Note:</u> the Start				
	Address of UA is bass on 0, even if some	e modules are bass on 1,				
	here it needs to follow UA to set bass on	0.				
Data Number	The number of the Modbus address. Nee	ed to give enough number				
	for the DO, DI, AO, AI channels of the m	odule. Default: 1.				
Туре	This item only when the data model is 03	3 or 04. Choose the				
	suitable data type: 16-bit Short, 16-bit Ur	nsigned Short, 32-bit Long,				
	32-bit Unsigned Long, 32-bit Float, 64-bi	t Double.				
Create Tables	Click [Add] button, it will add a table in th	e Modbus mapping table.				

Address	Description	Attribute
30001 ~	Analog input value of channel 0 to 5.	R
30006	channel 0: CO ₂ in 1ppm,	
40001 ~	channel 1: relative humidity in 0.01%,	
40006	channel 2: temperature in 0.01°C,	
	channel 3:temperature in 0.01°F,	
	channel 4: dew point temperature in 0.01°C,	
	channel 5: dew point temperature in 0.01°F	

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Address	Sattin	a. Mo	dhuc Ma	anning T	able Dicolay	and Ed	i+		
Address .	Settini	y. 1010							-
	Mod	ous M	apping Ta	ible	Addres	ss Nick	kname Scal	ing Bitwise	e
	C	Coil Statu	s(0x)	Input St	atus(1x)	Holding Regis	sters(4x) Inp	out Registers(3x)	
	–		ام م ما ما		001 4000	_	Add	lress 0	
		аке т Расо	ne add 1) in th		001-4000t 12 manual) 		nber 6 rpe Short	
		vani	i) in ui nle.		72 manuai	as all		Edit	
		Xun	JIC.		ОК С	ancel			
Nicknam	e Setti	ing: If	you war	nt to set	the variable	name o	r add a desc	ription, you	ı can click
[Nicknan	ne Set	ting]	to add it						
		Mod	bus Mappir	ng Table	Addres	s Nickna	ame Scaling	Bitwise	
		01 Co	oil Status(0)	()		-1	<u>}</u>		
			Tab	le Display Sh	ow Hide		(1)		
		Addre	ess V	ariable name	Data Type	•	Description		
		02 In	put Status(1	lx)					
			Tab	le Display Sh	ow Hide		-		
		Addre	ess V	ariable name	Data Type	•	Description		
		03 Ho	olding Regis	sters(4x)	ow Hide				
		Addre	ss Varia	able name	Data Type	Swap	Description		
		04.10	out Dogisto	rc(2y)					
		04 11	Tab	le Display	ow Hide				
		Addre	ss Varia	able name	(2)Data Type	Swap	Description		
		0	CO2		Short				
		1	RH] Short				
		2	тс] Short				
		3	TF] Short				
		4	DC		Short				
		5	DF] Short				
				_	(3)				
					ОКС	ancel			
			IC	P DAS Co.	, Ltd. Technica	al Docum	ent		

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I/O Stat Advanced PID Ope IFTTT C Data Logg Local Da	sus File Set Setting MySQI eration ondition Trigger ger ata Logger 2.N	ting _ / MariaDB F	ySQL / N Remove	/ariaDB L	.ist Identificati MariaDB	on Name 1.Enter	Name
MS SQL				Rem	ove		
MySQL	/ MariaDB						
Block List	t					Save	9
MySQL / M Remove	1ariaDB List k	dentification e1	Name		Status		Edit
		MariaD	3		Enable	⇒[Edit
	Remove				< 1	/ 1 >	
			Save				
	IC	P DAS Co.,	, Ltd. Techr	nical Docume	nt		

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Enter the nam	ne of the data	base and ⁻	table, and	click [OK].			
	MySQ	L / Maria	DB Conn	ection Sett	ings		
		Identific	ation Name	MariaDB			
		Data	base Name	chris_test			
			Table Name	test			
			IP	192.168.85.1	23		
			Port	3307			
			Account	chris			
			Password	•••••			
			Log Mode	Cycle		~	
		Inter	val Seconds	5			
		Date 1	Time Format	[yyyy-MM-dd], [HH:mm:ss]	~	
			Enable	Image: A start of the start			
		Test	Connection	Connection	Success.		
				⇒	OK	cel	
Modbus	RTU Module	List					
No. *N	/lodule Name / Nic	kname	Edit		Database Name	e	All Enabled
1	Name	⇒	Edit	MariaDB	Apply	~	
					< 1	/ 1 >	
			Save				
		CP DAS CO.	, Ltd. Techi	nical Docume	ent		

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Entry Trigger Name									
TIME Select [AFTER]									
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And paste the following code into the definition.									
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VALUES (conca	at(new.Date,' ',	new.Tim	e) ,new.Name	e,new.Va	alue,new.Sta	atus);			
END									
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Details 😡	
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Time	AFTER ~
Event	INSERT V
Definition	<pre>INSERT INTO chris_test.test_change(DateTime,Name,Value,Status) VALUES (concat(new.Date,' ',new.Time) ,new.Name,new.Value,new.Status); END END END END END END END END END END</pre>
	Go Close

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Author	Carol Hsu	Version	1.0.2	Date	2023,8	Page	27 / 45	
4. How Indu	Soft read d	ata in th	ne Databas	e? oad the	program			
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URL: <u>https://su</u>	pport.microso	oft.com/z	h-tw/help/29	977003/	/the-latest-s	supported-	visual-c-	
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Install MySQL (DDBC	1	1		I		<u> </u>			
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URL: <u>https://de</u>	v.mysql.com/	/downloa	ds/connecto	or/odbc/	/					
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ODBC Settings

Before setting up InduSoft to read the database in this section, please make sure that the InduSoft (IWS) remote MariaDB database access function has been set up, if not, please complete it first, you can refer to the MySQL ODBC settings in the following appendix to set up.

5. Appendix: How IWS Accesses Remote MySQL Database via ODBC

<Note> MariaDB 10 default port is 3307.

After completing the ODBC settings, enter InduSoft and click on the image of the trend chart in Graphics.



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X Axis field is t	he name of the	e columr	n in which the	e time re	ecord in the	database is	s entered.
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Author	Carol Hsu Versi	on 1.0.2	Date	2023,8	Page	33 / 45			
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5. Appendix: How IWS accesses remote MySQL database through ODBC

Step 1 : Installation Environment (This example uses the following PC Environment)

- (1) Server: Install MySQL Workbench
- (2) Client: Install ODBC for MySQL

	Server Side	Client Side
OS Version	Windows 8.1 Professional	Windows 7 Professional
MySQL Workbench Version	v6.3.9 (MySQL Installer 5.7.18, x86 32bit) https://dev.mysql.com/downloads/file /?id=470091	N/A
InduSoft Version	N/A	v8.0.2.0
ODBC for MySQL	N/A	V5.3.8 (win32) https://dev.mysql.com/downloads/file /?id=470365

Step 2 : Open MySQL Server Remote connection Permission (Server Side)

- (1) Execute as Administrator: C:\Windows\system32\cmd.exe
- (2) Switch the document to where "MySQL.exe" located
 > cd C:\Program Files\MySQL\MySQL Server version\bin
 Note: version is the installed version. This example is 5.7

Microsoft Window (c) 2013 Microso	ws [版本 6.3.9600] oft Corporation. 著作權所有,並保留一切權	Ē和□○	
C:\WINDOWS\syste	em32 <mark>>cd C:\Program Files\MySQL\MySQL</mark> Serv	er 5.7\bi	•
C:\Program Files	s\MySQL\MySQL Server 5.7\bin>_		
微軟注音半:			~

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Author	Carol Hsu	Version	1.0.2	Date	2023,8	Page	36 / 45
(3) Login MyS	SQL server (The	e accoun	t / password	is set du	uring installa	ation)	
>mysql -u	root –proot						
Remarks:	-u account -p	passwor	d (-u -p follo	wed by	account pas	sword dire	ctly

without spaces). After successful login, you will see mysql>



(4) Enter the command to set permissions

> GRANT ALL PRIVILEGES ON *.* TO USERNAME@IP IDENTIFIED BY PASSWORD; Remarks: USERNAME is generally the default root; if the IP set to '%', all computers can connect; PASSWORD is the connection password

範例:

mysql>GRANT ALL PRIVILEGES ON *.* TO root@172.17.20.176 IDENTIFIED BY root; Allow 172.17.20.176 to log in using account root and password root

mysql>GRANT ALL PRIVILEGES ON *.* TO root@'%' IDENTIFIED BY root; Allow all computers to log in with account root and password root

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©™ Query 0 mysql> 微軟注 <	GRANT ALL PRI DK, Ø rows aff 计	≸統管 UILEGES (acted, 1	管理員:cmd.exe DN *.* TO roo warning (0.0	e - 捷徑 ot@'%'	IDENTIFIED I	- □ ×	
(5) Update pe	ermission settii	ngs and l	eave MySQL				

mysql>FLUSH PRIVILEGES;

mysql>quit;

■ 条統管理員: cmd.exe - 捷徑 - □ ×
mysql> GRANT ALL PRIUILEGES ON *.* TO root@'x' IDENTIFIED BY 'root'; ^
Query OK, Ø rows affected, 1 warning (0.00 sec)
mysql> flush privileges:
Query OK, Ø rows affected <0.00 sec>
mysql> exit
Bye
C: \Program Files \MySQL\MySQL Server 5.7\bin>_
微軟注音 半:

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Step 3 : Add " Allow MySQL the MySQL se (1) Open " Co Inbound Rule	Inbound Rules pass through t rvices ontrol Panel $\#$ s \rightarrow New Rule	s ″ in th he firew → Wind	vall Port 3306	Defend 5, so tha er Firev	ler Firewall (S at the remote vall→ Advane	Server) e device car ced Setting	n access s→
 ₩ Windows Defender Firew → → ↑ ★ → ↓ 	all rrol Panel > System and Secu Help protect your I	urity > Window	vs Defender Firewall			ע ט גע אין	-
Control Panel Home Allow an app or feature through Windows Defender Firewall Change notification settings Turn Windows Defender Firewall on of off Restore desults Advanced settings Troubleshoot my network	Help protect your i Windows Defender Firew through the Internet or a Windows Defendi File Action View Tile Action View Windows Defendi Windows Defendi Windows Defendi Windows Defendi Secontation Second Monitoring	er Firewall with A Help r Firewall with A Help r Firewall Inb es curity Rule A A B B B B B Curity Rule Curity Rule Curit	Advanced Security Advanced Security Advanced Security and Rules and Advanced Security and Advanced Security Advanced Security and Advanced Security Advanced Secur	Action Inbou T Fil T Fil T Fil E E He	In access to your PC		
Security and Maintenance Network and Sharing Center	¢	✓ E	sTool	>		_	
(2) Refer to fo	llowing setting	ıs (Captı	ures)				
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i Fr Se Si o	New Inbound Rule W Rule Type elect the type of firewall rule to keps: Rule Type Protocol and Ports Action Profile Name	Vizard o create. What type of Program Rule that @ Port Rule that @ Firewa Rule that	rule would you like to creat controls connections for a controls connections for a red: IIAPI.dll,-80200 controls connections for a	te? program. TCP or UDP port Windows experie	nce.	×	
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 Ne Actio Specify Steps: Rule Proto Actio Profi Name 	ew Inbound Rule Wizar In the action to be taken when a Type ocol and Ports on le e	d What action : Allow the This inclu	tes the conditions specifie should be taken when a e connection	ed in the rule.	e the energified are drive - 9	×	
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Author Carol Hsu Version 1.0.2 Date 2023,8 Page 41 / 45 Name New Inbound Rule Wand New Inbound Rule Wand <th></th> <th>UA-Series En</th> <th>glish FAQ-I</th> <th>Dev-005</th> <th></th> <th></th> <th></th> <th></th> <th></th>		UA-Series En	glish FAQ-I	Dev-005					
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Author	Carol Hsu Vers	sion 1.0.2	Date	2023,8	Page	42 / 45
Step 4 : Set up (1) Execute as	Carol Hsu Vers ODBC Connections Administrator: C: ODBC 資料來源管理	sion 1.0.2 (Client) (Windows\SysWo 追蹤 追蹤 原動程式 Driver do Microsoft Microsoft Access Dri Microsoft Access Dri Microsoft Access dB Microsoft Access dB Microsoft Access Dri Microsoft Access Dri	Date OW64\odb 連線共用限 原源名稱 Access (*.mdb) ver (*.mdb) MSE Driver (*. rer (*.xls, *.xls Access (*.mdb) ver (*.mdb, *.	2023,8 ecad32.exe→ 属 關助 檔案資料來源 新增(設定(Page Add 文字 (R) (C)	42/45
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			上一步(B)	完成	取消	

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(2) Set the connection name (used by IWS) / server IP, Port / login account

password/database. Press OK to close when finished

Note: The database (Schema) has to create in advance and can add using the MySQL Workbench management tool.

Mysqu Connector/ODB	с			
Connection Parameter	s			
Data Source Name:	MySQL			
Description:				
TCP/IP Server:	172.16.20.176	Port:	3306	
Named Pipe:	[
User:	root			
Password:	••••			
Database:		-	Test	
Details >>	information_schema mysql performance_schelwà sakila svs	ancel	He	elp

(3) Make sure the ODBC connection is established successfully

驅動程式	追蹤	連線共用	區 關於
使用者資料來源: 使用者資料來源(U	名稱 齐):	統資料來源名稱	檔案資料來源4 新增(D
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ODBC (使用者)	使用者資料來源 資料來源只有您 確定	會存放如何連線特定的 能看見,且只能用在 取消	的資料提供者的資計 目前的機器上。

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Step 5 : Set up InduSoft database connection (Client) (1) Take the trend chart form as an example. Under "Provide" Tag, chooses Microsoft OLE DB Provider for ODBC Drivers									
A Cut B Run Download B Download <td< td=""></td<>									
Clipboard Local Management 12 Remote Management 12 Tools 12 Tags									
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p→1. Script p→1. Scheduler Database: Primary ▼ 道撑您要连線的資料:									
Database/ERP Use project default OLE DB Provider(s)									
Connection string: Provider=MSDASQL.1; Data Source=m Microsoft Jet 4.0 OLE DB Provider for Analysis Services 10.0									
User name: Microsoft OLE DB Provider for Analysis Services 11.0 Microsoft OLE DB Provider for Indexing Service									
Password: Retricterizet 120 Sec. Advanced U.E.DB Provider for ODBC Drivers									
Table Microsoft OLE DB Frovier for Oracle									
Use default name Automatically create Microsoft OLE DB Provider for SQL Server Microsoft OLE DB Simple Provider									
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(2) Set the da	ta source nan	he (mySQ 为容 線 進階 頁目以連接至 對本源: 更用資料來源 mySQL 更用連接字串 (C):	QL) → the da 全部 ODBC 資料: 「名稱(D) G(O)	tabase t	o be used (te (重新整理(R)) 建立(U)	est) →test o	connection		
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			[[[[[[] [] [] [] [] [] [] [測試連續	線(T) 肖 〕 _ 說明				
(3) Successfully connected means to complete the setting.									
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