

NISE-610E Series Data logger User Manual

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About this manual

This manual is for data logger of the NISE-610E series products .

Purpose

This manual is intended for:

- Product users ;
- Field technical support, maintenance person and system implementation person .

Symbol Conventions

In order to ensure the safety of users, power grid, and equipment when using this product, the manual provides relevant warning symbols. Please read it carefully to better use the equipment and avoid personal and property damage.

Symbols	Description
D anger	Indicates a high potential danger, which may cause personal injury or property damage if it cannot be avoided.
Warning	Indicates a moderate potential danger, which may result in personal injury or property damage if it cannot be avoided.
Caution	Indicates a low potential hazard which, if not avoided, may result in personal injury or property damage.
Attention	Indicates a potential risk if failure to avoid a situation that could cause equipment to fail to function properly or cause property damage.
1 Note	Emphasis and additions to the content may also provide tips or tricks to optimize the use of the product, which can help you solve a problem or save you time.

1. Safety Instructions

NISE-610E data logger are designed and tested to meet the requirements of international safety regulations, but it is still necessary to pay attention to safety when installing or operating. Please read the installation instructions, warnings and precautions in the user manual carefully and always follow these instructions when using the data logger.

Unreasonable use or misoperation may result in:

- Injury to the life and personal safety of the operator or third parties.
- Damage to the logger or other property belonging to the operator or third parties. Precautions during operation will be detailed in the appropriate section.

Note: The safety instructions in this manual cannot cover all the precautions that should be followed. Follow the actual conditions on site. CSI disclaims liability for any damage caused by a violation of the safety instructions in this manual.

Please have the relevant organization of professional personnel to install this product, wiring and other work.

2. Product Description

2.1 Product Description

Danger

NISE-610E data logger are mainly used in industry and commerce, distributed photovoltaic projects are safe and reliable, easy to install, flexible networking, multi-device access, intelligent operation and maintenance.

Easy to install: desktop installation, guide rail installation

Flexible networking: Supports four RS485 and one Ethernet communication modes

Support protocol: RS485: Modbus RTU

Ethernet: Support Modbus TCP, IEC104, MQTT

2.2 Application Scenarios Introduction

Application scenarios of data logger:



2.3 Appearance



2.4 Power Wiring Diagram





Static electricity and surges can easily have adverse effects on equipment. PE terminal blocks are designed to release the current introduced by static electricity and surges. Most of the discharges from the internal protection circuit of the machine are connected to PE. Please connect PE to the ground reliably.

2.5 Communication Terminals

NISE-610E contains four universal serial ports P1 to P4.



NO.	Definitions	NO.	Definitions
1	COM2 RS-485 A	6	COM4 RS-485 A
2	COM2 RS-485 B	7	COM4 RS-485 B
3	COM3 RS-485 A	8	COM5 RS-485 A
4	COM3 RS-485 B	9	COM5 RS-485 B
5	GND	10	GND



Follow the wire markings for wiring.

2.5 Network Ports

NISE-610E series supports 1x 10/100MBps BASE-T RJ45 Ethernet:



Dinc	10/100 MBps RJ45
PIIIS	Definition
1	TX+
2	TX-
3	RX+
4	-
5	-
6	RX-
7	-
8	-

Insert the network cable into the RJ45 network connector. When the network cable is reliably connected, the two LED indicators located in the RJ45 connector will indicate the current network status. The RJ45 network connector indicator is defined in the following table:



Indicators	Color	Status	Features
SPD L&A	aroon	ON	10/100 network is connected
	green	OFF	The network is disconnected or not connected
		ON	Network packets are being sent and received properly
	yellow.	OFF	No packets sent or received (or no connection)

2.6 Indicator Light Description

Model		NISE-610E			
Light	Color	Status	Function		
	aroon	ON	Always on after power on,the power supply is normal		
PWR green	green	OFF	Power outage		
RUN	green	ON/Blink	System running indicator,on/flashing is normal		
F1	green	OFF	Unused		
F2	green	Blink	Internal status indication		

3. Mechanical Installation

3.1 Equipment Disassembly

Check that the delivery is complete and free of damage according to the packing list in the package. The NISE-610E package contains the following items:

NO.	Name	Quantity	Notes
1	NISE-610E logger	1	
2	Power terminal	1	
3	Serial terminal	1	Includes two terminal resistors of 120 Ω
4	Switching power supply	1	
5	DIN-Rail rail	1	

3.2 Device Installation

It can be wall-mounted, desktop or rail-mounted according to the actual conditions on site.



Wall hanging, desktop installation steps :

- 1. Choose the right plane (wall, metal surface, desktop);
- 2. Use a marker to mark the drilling position;
- 3. Use an electric drill or hammer drill to drill holes in the marked positions;
- 4. Fasten with expansion screws (wall) or fasten with nuts (metal surface).



Please avoid other wires in the wall when drilling to avoid damage

Rail installation:

- 1. Fix the guide rail in the appropriate position;
- 2. NISE-610E is tilted at a certain angle, so that the upper clip fits into the guide rail;
- 3. Push the lower part of the NISE-610E and snap it into the guide rail.



Please observe the surrounding environment during installation to avoid hand scratches.

Power supply installation steps: The power supply only supports rail installation. For installation steps, please refer to the NISE-610E rail installation steps.

4. Electrical Installation

4.1 Power Connections



Steps for Power Installation

- 1. Use 2.5 $\ensuremath{\mathsf{mm}}^2$ wire and strip the insulation 8-10mm;
- 2. The +V and -V terminals of the power supply are respectively connected to the V+ and V- terminals of the NISE-610E device.



4.2 RS485 Connections



Definitions Definitions NO. NO. COM2 RS-485 A 6 COM4 RS-485 A 1 2 COM2 RS-485 B 7 COM4 RS-485 B COM3 RS-485 A COM5 RS-485 A 3 8 4 COM3 RS-485 B 9 COM5 RS-485 B 5 GND 10 GND

- 1. Use 1~1.5 mm² twisted pair with shielding layer;
- 2. Strip the protective layer of the communication cable by about 20mm, and strip the insulation layer of the wires by about 10mm ;
- 3. Connect the stripped wires to the RS485 port of the NISE-610E device ;
- 4. If multiple inverters need to be monitored on site, daisy-chain cables can be used for the inverters. Each serial port of NISE-610E can connect 30 inverters.



When wiring, the RS485A is connected to port A of the NISE-610E device and the RS485B is connected to port B of the NISE-610E device.

5. Engineering Configuration

5.1 Configuration Software Download

Please to https://smartenergy.csisolar.com/attach/ConfigTool_EN.7z, download ConfigTool configuration software.

5.2 Network Configuration

5.2.1 Connect the NISE-610E

The default IP address of the NISE-610E is 192.168.1.254, Modify the computer IP, and keep the computer and smartlogger IP in the same network segment, and use the network cable to connect the computer and Logger device. Stay on the same network segment, for example, 192.168.1.234, and connect the PC to the NISE-610E using a network cable.

nternet 协	议版本 4 (TCP/IP	v4) Properties					×
General							
You can g this capa for the a	get IP settings assig bility. Otherwise, yo ppropriate IP setting	gned automatical ou need to ask y gs.	ly if yo our ne	ur net twork	work sup administr	ports ator	
⊖Ωbt	ain an IP address a	utomatically					
() Uge	the following IP add	dress:					
IP add	ress:	192	. 168	. 1	. 234		
Subne	t mask:	255	. 255	. 255	. 0		
Defau	t gateway:						
Obt	ain DNS server add	ress automatical	v				
() Use	the following DNS s	server addresses					
Prefer	red DNS server:				*		
Altern	ative DNS server:						
Va	idate settings upon	exit		1	Adyanc	ed	
				OK		Cancel	

5.2.2 Modify IP address

1) Connect the network cable to NISE-610E, open the computer browser and enter 192.168.1.254, enter the user name "admin" and password "admin", Click to Login.

2) Modify on the "Network" page and configure the IP and gateway address of the management machine according to the router's network segment information. If the router's network segment is located in network segment 8, modify the management machine IP address to 192.168.8.254, the default gateway to 192.168.8.1, and click Save.



3) After the modification is completed and saved, restart the management machine.



5.3 Software Configuration

5.3.1 Changing the Modbus Address

Attention	Before using the NISE-610E logger, change the Modbus address of each inverter to ensure that the Modbus address on the RS485 bus is not the same
1 Note	Using the smart data stick provided by CSI, the operation is as follows

1) Insert the data stick into the inverter, wait for the green light to blink, open the APP "more tools"-> "Local Access" -> scan the code to connect the inverter, select the inverter and click Next.



2) Click the "Parameters" page below->enter password 8888 in the pop-up box -> click "Inverter Basic Information-ARM".



3) Click "The Local Mailing Address"-> modify the address as required-> click "Confirm"->re-scan the code connection to confirm the modification

< Inver SN22234567	ter 789841152	C
DSPM Software Version Nur	nber	2.32
ARMS Software Version Nur	nber	2.13
ARMC Software Version Nur	nber	2.24
CPLD Software Version Nun	nber	44.66
Serial Number 01~02 Digits		SN
Serial Number 03~04 Digits		22
Serial Number 05~06 Digits		23
Serial Number 07~08 Digits		45
Serial Number 09~10 Digits		67
Serial Number 11~12 Digits		89
Serial Number 13~14 Digits		84
Serial Number 15~16 Digits		11
Serial Number 17~18 Digits		52
Serial Number 19~20 Digits		11
The Local Mailing Address		1
Device Name 01-02 Digits		CS
Device Name 03-04 Digits		ŀ
D ' N 05 00 D' '		
값 🛛 Overview Real Time	▷ Parameter	은 Debugging

< Inve	rter	C
SN2223456 Serial Number 01~02 Digits	789841152	SN
Serial Number 03~04 Digits		22
Serial Number 05~06 Digits		23
Serial Number 07~08 Digits		45
Serial Number 09~10 Digits		67
Serial Number 11~12 Digits		89
Serial Number 13~14 Digits		84
St Effective range:1~247		
Se 6		
Se		
Se Cancel	Confirm	
St Cancel	Confirm	
Se Cancel T Device Name 01-02 Digits	Confirm	cs
Se Cancel TL Device Name 01-02 Digits Device Name 03-04 Digits	Confirm	cs I-
St Cancel TL Device Name 01-02 Digits Device Name 03-04 Digits Device Name 05-06 Digits	Confirm	cs I- 10
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Se Cancel T. Device Name 01-02 Digits Device Name 03-04 Digits Device Name 05-06 Digits Device Name 07-08 Digits Device Name 09-10 Digits	Confirm	CS I- IO OK W0
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Se Cancel TL Device Name 01-02 Digits Device Name 03-04 Digits Device Name 05-06 Digits Device Name 07-08 Digits Device Name 09-10 Digits Device Name: 11-12 Digits	Confirm	CS



5.3.2 Open Configuration Software

Go to the /bin directory and open the configuration application ConfigTool.EXE

				_	D
Qpen local New Open Save SaveAs Discover	r Deliver Time Reboot Upgrade :	Search Debug ScdTool FtpSet A	ti 🕑 About Exit		
Den local New Open Save SaveAs Discover Communication Controller Config Nodes SystemNode DataSets Calculations Station N Dual-devis System de Nede No.: Current of Allowed t	r Deliver Time Reboot Upgrade : n de: Single derice Metvork node: S maion of Device A mane 0.0.0.0 No. : wice node: debugging node : configuration description: time synchronization error in seconds:	Search Debug ScdTool FtpSet A ingle network Disable dual devices information of Device B Boot name IP1: Device B Sect name Root standby 0 0 0 0 0 0 0 0 0 0 0 0 0	Nour Ext s' data synchronization S' iching settings of dual devices S' sticking type S' bicking communication port S' bicking port setting Dual system setting Local system Local system type Preferred Alternative device a's IP1 (0.0.0.0 Alternative device b's IP2 (0.0.0.0 Alternative device b's IP2 (0.0.0.0		

5.3.2 Select Configuration File

Click on "Open" and select "CSI_Invert.NC" profile to see several configurations displayed by default in the node list.

Communication Controller	System mode: Single	device • Network mode: Single network	Disable dual devices	s'data synchron	ization			
V Nodes	Information of Devic	e à Information of	Device B	Switching	settings of dua	al devices		
SystemNode	Host name	Host name		Switching	type	Type1	~	
DataSets	IP1: 0.0.0.0	IP1:		Switching	communication p	oort		
Calculations	IP2	IP2:		Switching	port setting			
	Open the configurat	ion			×			
		drcomm V9.01 20220812 > config	v 0	○ 搜索"config"				
		arconing void (_EDEEDOTE + Coning	• •	Less comig		Preferred	•	
	组织 ▼ 新建文件夹				• 🔳 🕜). 0. 0. 0	_	
	▶ 此由院	^ 名称 ^	修改日期	类型	大小	2. 0. 0. 0	_	
		192 168 1 254 cpm pc	2022/11/20 11:15	NC	62		_	
		192.168.8.254.cpm.nc	2023/11/29 19:11	NC 文件	113			
	1969A	C cpm.nc	2023/10/17 17:01	NC 文件	3.798			
		CSI Invert.nc	2023/12/4 10:59	NC 文件	113			
	> >\$%			-				
				2				
	二 果田							
	🐛 本地磁盘 (C:)							
	🧼 本地磁盘 (D:)							
	🧹 本地磁盘 (E:)							
	✓ zlq (\\192.168.8 '	~ <			>			
	文	(件名(N): CSI_Invert.nc	~ Pr	roject configurati	on file (*.n $ \sim $			
				打开(0)	取消			
			L	11/1(0)	- CERTAR			

5.3.4 Time Configuration

After opening the configuration, in order to calibrate the inverter time, you need to calibrate the time of the management machine first.

Communication Controller	Node No.: 4 Node name: IEC 104	Advanced settings	
 Vodes 	(Carlinger Channel)	Channel is malfunctioning when	No calibration of the oppsite port
SvstemNode	Configure Channel	Channel's no-data-flow interval is over 300	Communication interruption restart
CSI RS485	Time Synchronization Non-Synchronization	 Channel's error packet rate is over 0.5 	Contorl blocke rule
CSI MOTT	Device Address 0.0.0	Dual devices	Use system's rules
CSI Inverter TCP	DataSet No. Table-Modbus TCP	 System mode Host working 	•
IEC 104	🖾 Realtime data definition	Dual-channel compunication mode Host channel working	•
✓ DataSets	Capacity(DI:117, AI:305, PI:0, DO:1, AO:6)	Switching heard No. 99	6
Table-Modbus TCP	Node's storage occupation(1-8M): 0	Switching board No. 55	
Calculations		Switching point we:	•
		_ Alternative hous existen and its so.	
	Are you sure to m	nodify tige? es No	
	Export node configuration	nodify tige?	

5.3.5 Network Configuration

In "FtpSet", set the parameters based on the modified smartlogger IP address.

Qpen local New Open Save SaveAs	Discover Deliver Time Reboot Upgrade Search Debug ScdToo	© 0 pSet About Exit	
Communication Controller Config Config SystemNode SystemNode SIRS485 CSI RS485 CSI MQTT CSI Inverter TCP Fic 104 DataSets Table-Modbus TCP Calculations	Node No. : 1 Node name: CSI R5485 Baic settings M Configure Channel Configure Protocol Time Synchronization Synchronization Server Device Address 0.0.0.0 DataSet No. Bodefined Capacity(D1:351, A1:915, P1:0, D0:3, A0:18) Node's storage occupation(1-80): 0 IF addr: 192.168.8.244 UserSamefroot	Advanced settings Channel is aslfunctioning when Channel's no-data-flow interval is over 300 Channel's error packet rate is over 0.5 Dual devices System mode System mode System mode System mode System mode mode flow for the system System of the system mode for the system of the system System of the system mode for the system of the system	□ No calibration of the oppsite port □ Communication interruption restart Contorl blocks rule Use system's rules ▼
♣ Add node	Export node configuration Import node config	© Discar	

5.3.6 Serial Port Configuration

1) Select Protocol Node

Select the node "CSI RS485" in the node list, select "Settings", select "c_CSI.lcn" in the client protocol, click "Setting", the protocol configuration dialog box appears.

💐 🍖 ờ 🧔 🂐 Open local New Open Save SaveAs	E T W W W W W W W W W W W W W W W W W W	
Communication Controller Config Config Config Config CSI R5485 CSI R5485 CSI MQTT CSI Nverter TCP File To4 CSI Inverter TCP EC T04 CSI Lot Calculations	Node No.: 1 Node name: CSI R54865 Easic settings Configure Channel Channel is alfunctioning when Channel is ordata-flow interval is over 300 Channel's error packet rate is over 0.5 DataSet No. CapacityD1:SSI, A1:91 Node's storage occupat CiectO4/cn	□ %o calibration of the oppsite port □ Communication interruption restart Contor! block rule Use systea's rules •
	Capacity: Ulisot, Alisto, Flit, Uris, Avia) Capacity: Ulisot, Alisto, Flit, Uris, Avia) Capacity: Calcon ? ×	
Add node	Channel Paraaseter Setting Dev Paran Config Serial Port Baud Rate Verification Type 1 com2 9600 元 1 com2 9600 元 1 Baud Rate 9600 Verification Type To an and the set of the	

2) Configure serial port parameters

Configure the serial port number, baud rate, check type, stop bit, and data bit in the "Settings" section.

3) Set inverter parameters

In Device Parameter Configuration, configure the number of inverters and their communication addresses. Inverters can be added by "Adding records". If there are actually 3 inverters on site, you need to add 3 records, and the communication addresses are 1, 2, and 3 respectively. Then click "OK" -> "Confirm modification" to complete the configuration of the serial port part.



Before this, it is necessary to change the Modbus address of the inverter and set it to the same address as in the configuration.

Ch	annel Paramete	r Setting	Dev Param Confi	s co	onnect com	nfig								
	Device Name	Device Type	Device Address						Attribute	Value				
1	NB01	inverter	1						Device Name	NB01				
2	NB02	inverter	2						Device Type	inverter				
3	NB03	inverter	3						Device Address	1				
	Column correla	tion Set n	umber Add r	ecord	Delete	record	Export	Imj	port 🔣 Cor	nfirm the	changes	🗙 Discar	d the chan	nges

5.3.7 MQTT Forwarding Configuration

NISE-610E enables data forwarding to the Canadian Intelligent Energy Platform by default. You can delete the CSI MQTT node if it is not needed. Select "CSI MQTT" in "Nodes"-> click "Setting"-> select "s_CSIMqtt.lcn" in "Server "-> click"Setting"-> under "MQTT Communication Parameter Configuration"-> double-click "Collector ID", enter the correct collector ID in the pop-up dialog box. The collector ID can be found on the casing of NISE-610E.

💐 🍻 ờ 🧔 🂐 Open local New Open Save SaveA	s Discover Deliver Time Reboot Upgrade Search Debug ScdTool FtpSet About Exit	
Communication Controller Config Nodes SystemNode Si R5485 CSI R5485 EC 104 DataSets E Table-Modbus TCP Calculations	Hode No. : 2 Node name: CSI MOTT Baric settings Charmel is allumitoring when Charmel's no-data-flow interval is over 300 Charmel's error packet rate is over 0.5 DataSet No. Configure Protocol Capacity(D1:0, A1:0, P) Type Client Application SecTodV2.0.kn siec104V2.0.kn siec104V2.0.kn	No calibration of the oppsite port Consumication interruption restart Control blocke rule Use system's rules • • • • • •
	REFIELD(S, CSIMqutLon) ? ROTT communication parameter configuration Sub device configuration table Remote signaling data configuration table Telenetry Data C Collector ID Heartbeat holding time Publication interval Mqtt Server Port SSL Mqtt Se WP823240015 23 5 minute 9002 sep-gwc Collector ID WP823240015 Hartback Finitian and the server Port SSL Mqtt Server Port 9002 Station Station Mqtt Server Port 9002 Sep-gwc Mqtt Server Port 9002 Sold Set Server Port 9002	
Add node Delete node	Get stri ? X Please insert string ↓ ZESPERSIGNE ↓ Cancel View Name csi Password csi@2023 Collector model 4:NISE-610E-4G-S Number of serial ports 2	

The location of the collector ID on the housing can be seen in the figure below, and the sequence number is the collector ID.



be found on the platform.

Attention

In addition, choose the product with the same model as you use, the collector model can also be found in the label above.

	-	SSL	Mqtt Server Address sep-gw.csisolar.com	User Name csi	Password csi@2023	Collector model 3:NISE-610E-S	Number of serial ports 4	Attribute Collector ID	Value WP823240015
						K		Heartbeat holding time	123
								Publication interval	1 minute
								Mqtt Server Port	9031
								SSL	
								Mqtt Server Address	sep-gw.csisolar.com
								User Name	csi
						🐻 Get int		Password	csi@2023
						Please se	elect integer value	Collector model	3:NISE-610E-S
						3:NISE-6	10E-S •	Number of serial ports	4
						1:NISE-6 2:NISE-6 4:NISE-6 5:NISE-6 6:NISE-6 7:NISE-6 8:NISE-6 9:NISE-6 10:NISE-	12E-S 10E-4C-S 10E-4C-S 10 V2-S 10 V2-S 10 V2-S 14E-S 14E-S 14E-S 14E-S 16E-S 616E-4C-S ¥		
<							>		



Do not modify other parameters of MQTT at will, otherwise the data may not be uploaded to the platform.

5.3.8 Modbus TCP Forwarding

The Modbus TCP forwarding function is enabled in the CSI_Inverter.nc configuration file by default. You can delete the CSI Inverter Modbus TCP node if you do not need it.

5.3.9 IEC 104 Forwarding

The IEC 104 forwarding function has been turned on by default in the configuration file of CSI_Inverter.nc. If it is not needed, you can delete the "IEC 104" node. When using the "IEC 104" node, you need to fill in the IP address and port of the management machine and IEC 104 host:

Communication Controller Config Nodes SystemNode CSI R5485 CSI R5485 CSI MQTT CSI Inverter TCP Taiculations Calculations CAlculations	Node No.: 4 Node name: IEC	104					
	Antiper and a state of the stat	Lue chronization hodbus TCP Realtine data definition 0, D0:1, A0:6) SMD: [0 20 20 20 20 20 20 20 20 20 2	•	Advanced settings Channel is alfunctioning when Channel's no-data-flow interv Channel's error packet rate in Dual devices System node Dual-channel comunication not Switching board No: Switching point No:	al is over <u>300</u> s over <u>0.5</u> Host vorking le Host channel vorking 99 0 0	• • •	□ No calibration of the oppsite port □ Communication interruption restart Contorl blocke rule Use system's rules •
	Z Export node configuration	Channel subble communication O Disable communication Serial communication Private network communication Public network communication	Device's con O UDP Communication Local IP Local port Device's IP Device's pos	aunication adde 5 O TCP Client (TCP Server in settings 192.108.8.254 22404 192.208.8.147 t 2404			
Add node		Channel 2 settings Disable communication Serial communication Private network communication Public network communication	Device's con UDP Communication Local IP Local port Device's por 7	munication mode O TCP Client ® TCP Server on settings			

5.3.10 Other Protocol Forwarding And Third-Party Device Access

NISE-610E supports the forwarding of other protocols and the access of third-party devices. Contact local technical support for remote configuration.

5.3.11 Downloading The Configuration And Restarting The Device

After completing all configurations, click "Deliver". When prompted, click "Reboot" to complete all configurations.

💐 🎲 📂 🗐 💐 Open local New Open Save SaveAs	a Discover Deliver Time Reboot Upgrade Search Debug ScdTool I	😳 👔 🥝 FtpSet About Exit	
Open local New Open Save SaveAt Communication Controller ✓ Oconfig ✓ Nodes	s Discover Deliver Time Reboat Upgrade Search Debug ScdTool Node No.: 4 Node mane: [EC 104 Easic settings Configure Channel Time Synchronization Device Address [0.0.0.0 DataSet No. Table=Nodbus TCP Capacity(DI:117, AI:305, FI:0, DO:1, A0:6) Node's storage occupation(1=80): [0	Advanced settings Channel is alfunctioning when Channel's nordata-flow interval is over 300 Channel's error packet rate is over 0.5 Dual devices System acde Bual-channel communication acde Host channel vorking Switching board No: Switching host No: Ideterrative node existed and its No.	No calibration of the oppsite port Communication interruption restart Contorl blocke rule Use system's rules •
	ZExport node configuration Figuration		
Add node Oelste node			
🔍 🍖 🎾 👰 🍭		🏟 🕕 🥹	
Communication Controller	Node No.: 4 Node name: IEC 104 Basic settings @ Configure Channel Time Synchronization Nor-Synchronization	Advanced settings Channel's nordata-flow interval is over 300 Channel's error packet rate is over 0.5	■ No calibration of the oppsite port □ Communication interruption restart Contorl blocke rule

✓ Nodes	Configure Channel	Channel is malfunctioning when	No calibration of the oppsite port
SystemNode		Channel's no-data-flow interval is over 300	Communication interruption restart
CSI RS485	Time Synchronization Non-Synchronization	 Channel's error packet rate is over 0.5 	Contorl blocke rule
CSI MQTT	Device Address 0.0.0	Dual devices	Use system's rules -
CSI Inverter TCP	DataSet No. Table-Modbus TCP	 System mode Host working 	•
🔶 IEC 104	🔛 Realtime data definition	Dual-channel communication mode Host channel working	-
✓ DataSets	Capacity(DI:117, AI:305, PI:0, D0:1, AO:6)	Switching board No: 99	•
Table-Modbus TCP	Node's storage occupation(1-8M): 0	Switching point No: 0	3
Calculations		Ilternative rade evicted and its No.	A
	Typort node configuration		
Add node	node		