Classification	DCON Utility Pro F	No.	DCON_02_004				
Author	Martin	Version	1.0.0	Date	2020/12/24	Page	1/2

How to change the communication parameters for modules equipped with hardware Dip-Switch?

The following series of modules are equipped with DIP switches and rotary switches to define the relevant communication parameters. The default starting address of these modules does not start from 1. Please pay attention to the "Quick Start" before using them. The default starting station number allocation when using hardware configuration for different product models is as follows:

Base Address Modbus 0~31 1~31 LC-103 32~63 32~63 LC-101 64~95 64~95 LC-221 96~127 96~127 iSN-101 96~127 96~127 iSN-201 LC-131 LC-305 96~127 96~127 96~127 SC-4104 5C-6104 SC-6104 160~191 160~191 PIR-130 PIR-231 192~223 CL-201 192~223 192~223 CL-201 CL-203 CL-204 CL-204	Hardware Co	nfiguration	Product Model
DCON Modbus 0~31 1~31 LC-103 32~63 32~63 LC-101 64~95 64~95 LC-221 96~127 96~127 iSN-101 96~127 96~127 iSN-201 LC-131 LC-305 96~127 96~127 128~159 128~159 128~159 128~159 160~191 160~191 PIR-230 PIR-231 192~223 192~223 CL-201 CL-203 CL-203 CL-204	Base Address		
0~31 1~31 LC-103 32~63 32~63 LC-101 64~95 64~95 LC-221 96~127 96~127 iSN-101 96~127 96~127 iSN-201 LC-131 LC-305 96~127 96~127 128~159 128~159 128~159 128~159 160~191 160~191 PIR-230 PIR-231 192~223 192~223 CL-202 CL-203 CL-204	DCON	Modbus	
32~63 32~63 LC-101 64~95 LC-221 96~127 96~127 iSN-201 LC-131 LC-305 LC-305 96~127 96~127 128~159 128~159 128~159 128~159 160~191 160~191 PIR-230 PIR-231 192~223 192~223 CL-201 CL-203 CL-204	0~31	1~31	LC-103
64~95 64~95 LC-221 96~127 96~127 iSN-101 iSN-201 LC-131 LC-305 LC-305 96~127 96~127 128~159 128~159 128~159 LC-504 SC-4104 SC-6104 160~191 PIR-130 PIR-230 PIR-231 192~223 192~223 CL-201 CL-203 CL-203 CL-204	32~63	32~63	LC-101
96~127 96~127 iSN-101 iSN-201 LC-131 LC-305 LC-305 96~127 96~127 128~159 128~159 LC-504 SC-4104 SC-6104 160~191 160~191 PIR-130 PIR-230 PIR-231 192~223 192~223 CL-201 CL-202 CL-203 CL-203 CL-204	64~95	64~95	LC-221
iSN-201 LC-131 LC-305 96~127 96~127 128~159 128~159 LC-504 SC-4104 SC-6104 160~191 160~191 PIR-130 PIR-230 PIR-231 192~223 192~223 CL-201 CL-202 CL-203 CL-204 SC-204	96~127	96~127	iSN-101
LC-131 LC-305 96~127 96~127 128~159 128~159 LC-504 SC-4104 SC-6104 160~191 160~191 PIR-130 PIR-230 PIR-231 192~223 192~223 CL-201 CL-202 CL-203 CL-204			iSN-201
LC-305 96~127 96~127 128~159 128~159 LC-504 SC-4104 SC-6104 SC-6104 160~191 160~191 PIR-230 PIR-231 192~223 192~223 CL-201 CL-202 CL-203 CL-204			LC-131
96~127 96~127 128~159 128~159 LC-504 SC-4104 SC-6104 160~191 160~191 PIR-130 PIR-230 PIR-231 192~223 192~223 CL-201 CL-202 CL-203 CL-203 CL-204			LC-305
128~159 128~159 LC-504 SC-4104 SC-6104 160~191 160~191 PIR-130 PIR-230 PIR-231 192~223 192~223 CL-201 CL-202 CL-203 CL-203 CL-204	96~127	96~127	
SC-4104 SC-6104 160~191 PIR-130 PIR-230 PIR-231 192~223 192~223 CL-201 CL-202 CL-203 CL-204	128~159	128~159	LC-504
SC-6104 160~191 160~191 PIR-130 PIR-230 PIR-231 192~223 192~223 CL-201 CL-202 CL-203 CL-204 CL-204			SC-4104
160~191 160~191 PIR-130 PIR-230 PIR-231 192~223 192~223 CL-201 CL-202 CL-203 CL-204 CL-204			SC-6104
PIR-230 PIR-231 192~223 192~223 CL-201 CL-202 CL-203 CL-204 CL-204	160~191	160~191	PIR-130
PIR-231 192~223 192~223 CL-201 CL-202 CL-203 CL-204			PIR-230
192~223 192~223 CL-201 CL-202 CL-203 CL-204			PIR-231
CL-202 CL-203 CL-204	192~223	192~223	CL-201
CL-203 CL-204			CL-202
CL-204			CL-203
			CL-204
CL-205			CL-205
CL-206			CL-206
CL-207			CL-207
CL-208			CL-208
CL-210			CL-210
CL-211			CL-211
CL-212			CL-212
CL-213			CL-213

ICP DAS Co., Ltd. Technical document

Classification	DCON Utility Pro F	No.	DCON_02_004				
Author	Martin	Version	1.0.0	Date	2020/12/24	Page	2/2

1. The searching issue for LC, PIR, CL, SC and iSN series modules.

If the start address is 0 or 1, then the searching progress will be very long, some user may consider as "Can't find modules".



That is the default net address is 97[61h], it is far away from 0.

Image: Comparison of the comparison
ID Address Baud Rate Checksum Format Status Description Comments ISN101 97[61h] 9600 Disabled N,8,1 Remote I/O [Modbus RTU]1*Leakage detector Supported
ISN101 97[61h] 9600 Disabled N,8,1 Remote I/O [Modbus RTU]1*Leakage detector Supported
Clear
Addross:08[62b] Baud Pato:0600 N 8.1 Chocksum:Disabled DCON
ICP DAS CO., Ltd. Technical document

Classification	DCON Utility Pro F	No.	DCON_02_004				
Author	Martin	Version	1.0.0	Date	2020/12/24	Page	3/2

The "Quick Start" shows, when using hardware configuration, the net address will be as "Low Node Address".

DAS

iSN-101 Quick Start

DIP Switch and Jumper Settings

	CW/1	ON	DCON Protocol
	SWI	OFF	Modbus RTU Protocol
ON DIP	CIU2	ON	Software Configuration
	SW2	OFF	Hardware Configuration
	CIU2	ON	High Node Address
1 2 3 4	SWS	OFF	Low Node Address
	CWIA	ON	INIT Mode
	SW4	OFF	Normal Mode

Address Settings via Hardware Configuration



Classification	DCON Utility Pro FA	No.	DCON_02_004				
Author	Martin	Version	1.0.0	Date	2020/12/24	Page	4/2

- 2. How to change the communication parameters?
- a. Turn on the power switch of the module under "Hardware Configuration" (default usage scenario)

			FAQ		
3:*	ID Address iSN101 97[61h]	Baud Rate Checksum 9600 Disabled	Format Status N,8,1 Remote I/O	Description [Modbus RTU]1*Leakage detector	Comments Supported
	iSN101 Firmware	A104]			×
	Configuration AI	Host WDT Commands Log	Summary About		
	Address	Modbus RTU V 97 (61H)		Modbus RTU 1	
	Baud Rate	9600		Hardware Configure 2	
	Parity	N,8,1 v		AA =96 + Rotoary 8	
)	INIT False 4	
				01 . 1 8 9	•
	Response Delay	0 ms		Base = 96 (0x60)	6
				Set	
	Exit				

When entering the setting screen, the right side is the position of the DIP switch, which is displayed as "hardware configuration", the related settings on the left side and the communication parameters are not allowed to be changed.

If want to change the net address, you have to change Dip-Switch and Rotary Switch as below.



Address Settings via Hardware Configuration

Classification	DCON Utility Pro F	No.	DCON_02_004				
Author	Martin	Version	1.0.0	Date	2020/12/24	Page	5/2

b. Module power on at "Software Configuration" and "INIT Mode".
For many applications, they want the modules address start from 1, 2, 3....
Or want to change baud rate and parity settings, please set the Dip-Switch bit-2 and bit-4 ON (Software Configuration" and "INIT Mode"), reset the power. You can find module at INIT state (DCON,9600,0,N81,Checksum disable) as below.

	🕞 CMD 🕎		FAQ		
омз:*	ID Address iSN101 0[00h]	Baud Rate Checksum F 9600 Disabled M	Format Status N,8,1 Remote I/O	Description [DCON]1*Leakage detector	Comments Supported
	isN101 Firmware[A	104]	mman About		×
	Protocol (INIT*) Address		innary About	Modbus RTU	
	Baud Rate (INIT*) Parity (INIT*)	9600 ~ N,8,1 ~		Software Configure 2	
	Checksum (INIT*)	Disabled ~		AA =96 + Rotoary 8	
	Response Delay	0 ms		Base = 96 (0x60)	N 166
				Set	
Clear	Exit				

Classification	DCON Utility Pro F	٩Q				No.	DCON_02_004		
Author	Martin	Version	1.0.0	Date	2020/12/24	Page	6/2		
Author Martin Version 1.0.0 Date 2020/12/24 Page 6/2 When change the communication parameters successfully, set the Dip-Switch bit-4 to off side (Not INIT Mode" and reset the power to make the settings effect. INIT Mode" and reset the power to make the settings effect. INIT Firmware[A102] INIT True Address 5 [05H] Baud Rate (INIT*) Industry INIT Irve AA =96 + Rotoary Software Configuration 2 Error Code=0 (NoError) Software Configuration Setting Communication Parameters OK: Software Configuration Setting Baud Rate, Checksum or Protocol OK!! Please do following steps Modbus RTU									
Follow th 1. Mak 2. Re-p 3. Sear	K Follow the instructions below: Base = 96 (0x60) ON 1. Make sure the Dip Switch is set to Normal (or Run). Base = 96 (0x60) ON 2. Re-power on the module to make new settings effective. Search for the module again and confirm the settings. Set								
				確定					