

Classification	DCON Utility Pro FAQ				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 ?

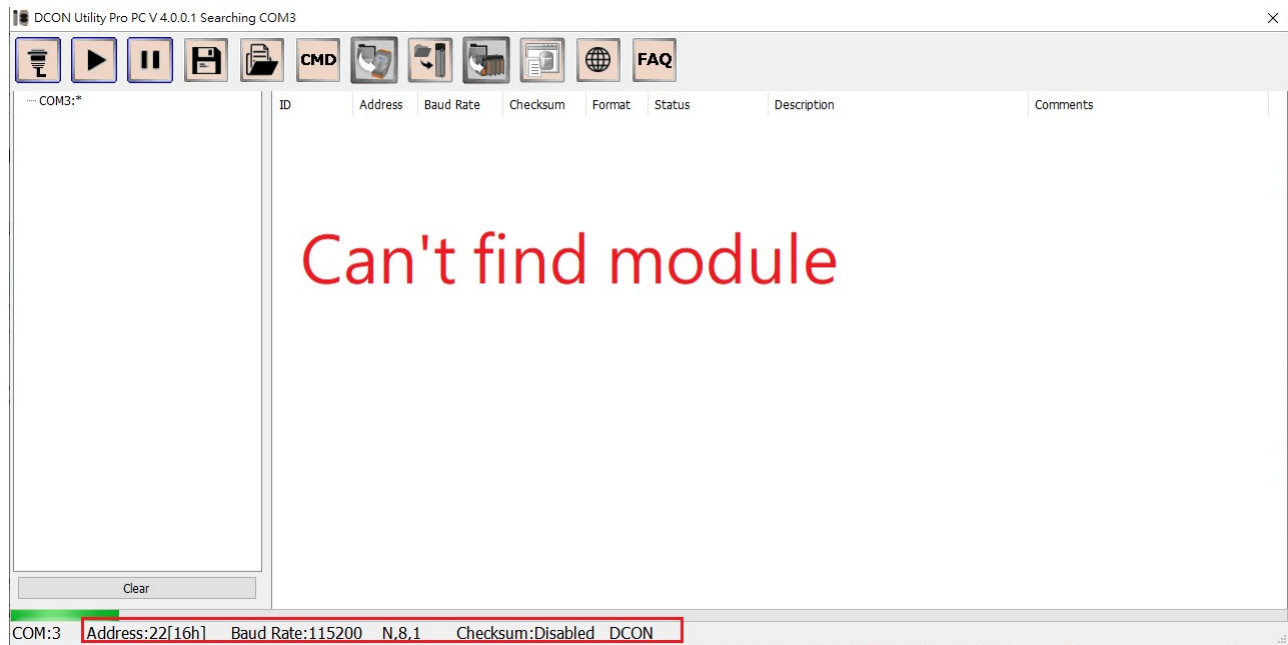
The following series of modules are equipped with DIP switches and rotary switches to define the relevant communication parameters. The default starting address of these modules does not start from 1. Please pay attention to the "Quick Start" before using them. The default starting station number allocation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

Hardware Configuration		Product Model
Base Address		
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 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 CL-205 CL-206 CL-207 CL-208 CL-210 CL-211 CL-212 CL-213

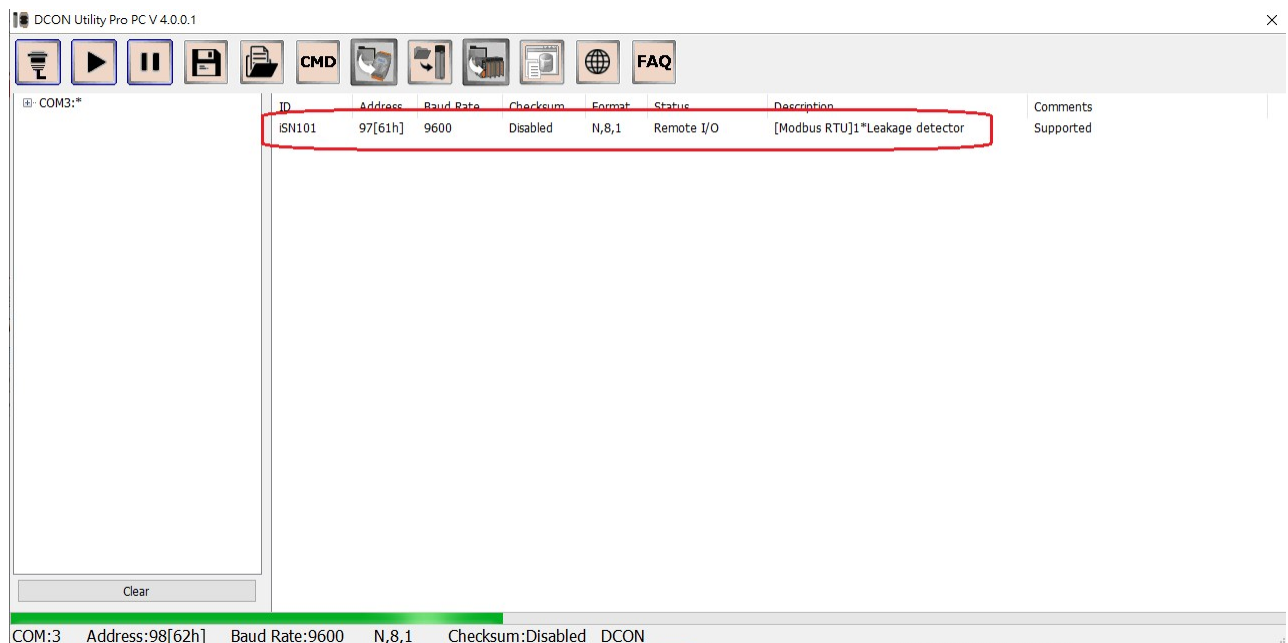
Classification	DCON Utility Pro FAQ				No.	DCON_02_004	
Author	Martin	Version	1.0.0	Date	2020/12/24	Page	2/2

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.



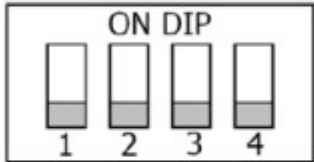
Classification	DCON Utility Pro FAQ					No.	DCON_02_004
Author	Martin	Version	1.0.0	Date	2020/12/24	Page	3/2

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


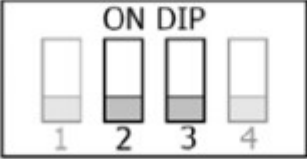
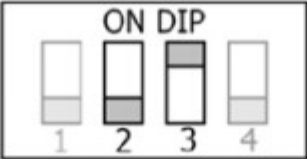


iSN-101 Quick Start

DIP Switch and Jumper Settings

	SW1	ON	DCON Protocol
		OFF	Modbus RTU Protocol
	SW2	ON	Software Configuration
		OFF	Hardware Configuration
	SW3	ON	High Node Address
		OFF	Low Node Address
	SW4	ON	INIT Mode
		OFF	Normal Mode

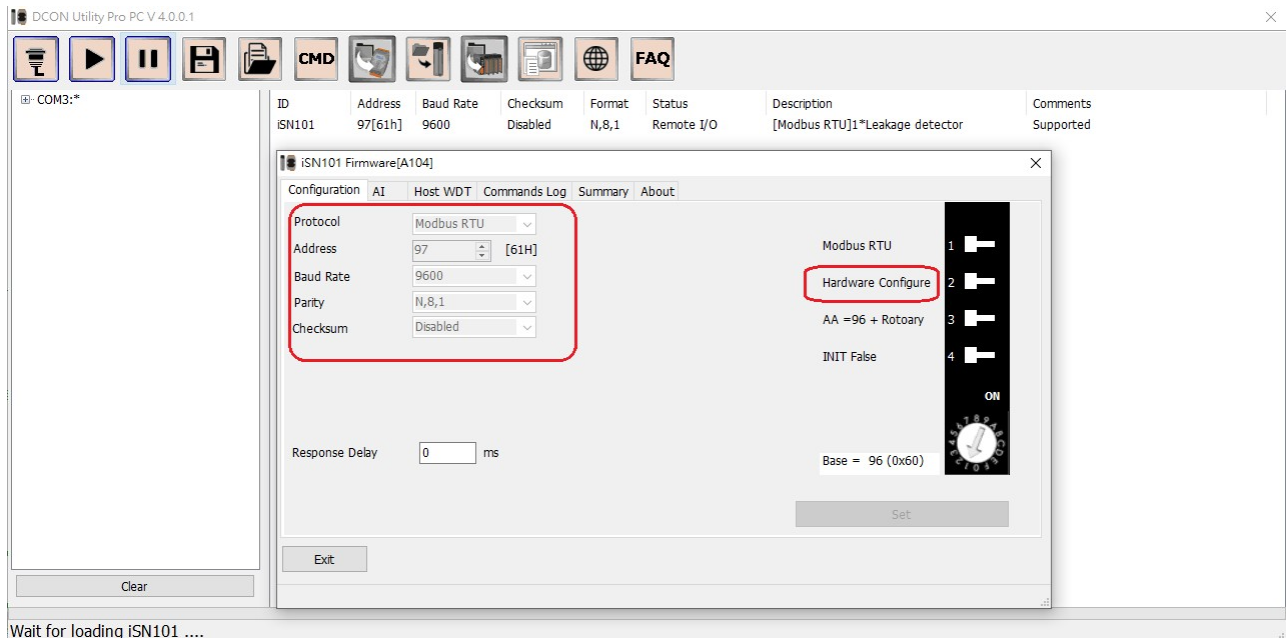
Address Settings via Hardware Configuration

		0 ~ F for Addresses 96 ~ 111 (Low Node Address)
		0 ~ F for Addresses 112 ~ 127 (High Node Address)

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

2. How to change the communication parameters?

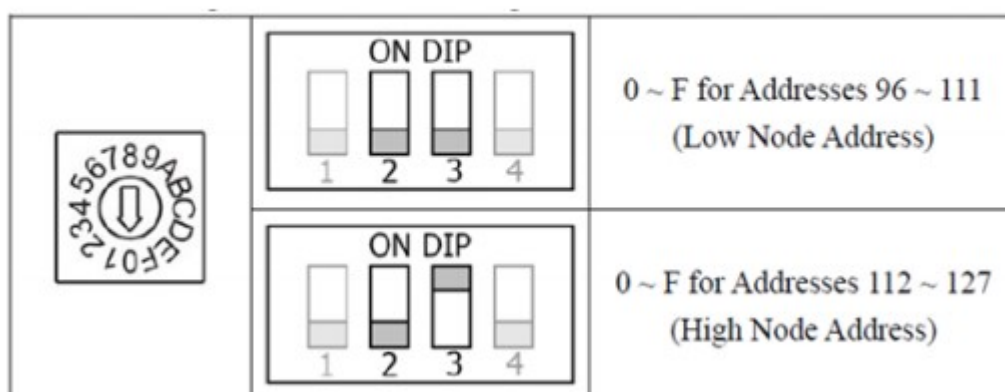
- Turn on the power switch of the module under "Hardware Configuration" (default usage scenario)



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

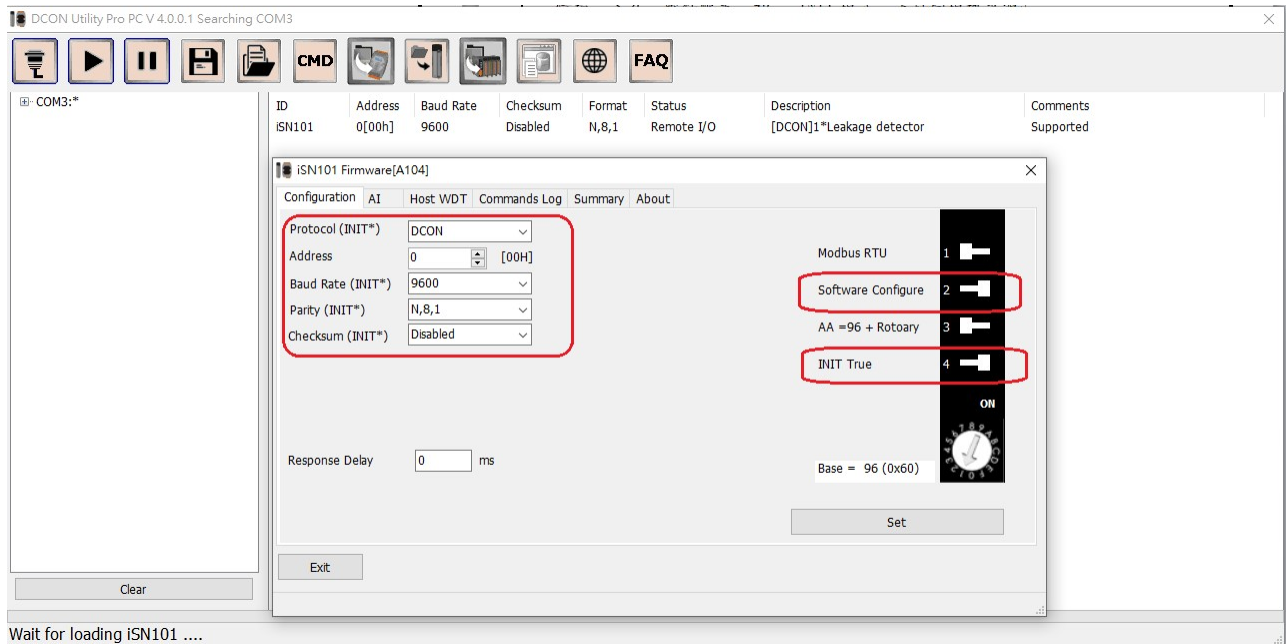


Classification	DCON Utility Pro FAQ					No.	DCON_02_004
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b. Module power on at “Software Configuration” and “INIT Mode”.

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,N8,1,Checksum disable) as below.



Classification	DCON Utility Pro FAQ					No.	DCON_02_004
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.

