Classification DCON Utility Pro FAQ					No.	DCON_01_001	
Author	Martin	Version	1.0.1	Date	2020/12/23	Page	1/2
How to configure a large amount of the same modules with							with

same configurations in INIT* to GND state?

Note: only I-7K/M-7K/I-87K/tM series support this function.

If there is an application need to configure 250 pieces of tAD4P2C2 as below configurations.

4 Channel Al	4 ~20 mA
Net Address	1~250
Baud Rate	19200
Protocol	Modbus RTU

DCON Utility Pro provides a very quick and easy way to finish this job.

Step 1: Select the "Remote I/O INIT" Quick Configuration" \rightarrow "Configure as INIT" Status" \rightarrow Select tM option \rightarrow then tAD4P2C2 module ID.

ID Address Baud Rate Checksum Format Status Description
Remote I/O Configuration X
Remote I/O INIT* Quick Configuration About COM Port COM1 Please make sure the INIT* is connected to GND
Configure in Offline Status Select I/O ○ 7K 87K ● tM Select I/O Select I/O Select I/O Select I/O Select I/O Configure I/O by File 1AD4 1AD4 Select I/O Select I/O IAD5C IAD5C IAD8 IAD8C ICS ICB IDA1P1R1 IP3POR3 IP3R3 IP4C4 IP4C4 IP8 IR5 IR5 IR5 IR5 IR5
Exit
Clear
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Step 2: Sele	ct the AD 4~20mA t	ype code f	or chan	inel 0 t	then "S	et all ch	annels	as CHO"	
tAD4P2C2	Firmware[0000] [Offline Configurat	tion]		-	31.6	2			
♥ CH:00 ♥ CH:01 ♥ CH:03 ♥ CH:03	AI Value Type Co. +000.000 103 H2 Write Configurations to I/O I	de 10 V 2.5 V 20 mÅ 20 mÅ 1 V 20 mÅ 20 mÅ	Save Conf	Alam Mode Disable Disable DO Bit Stat DO Di DO 1 Set tr @ Read I @ Read S Figurations to	High High 10 10 10 10 10 10 10 10 10 10	Alarm Limit Alarm Status Clear Lue	Low Alarm -10 -10 Set Alarm CH:00 CH:01 Set to [Saf	Limit n Status Clear Clear e Value]	

Step 3: Set the Protocol as Modbus RTU, Address 1, Baud Rate 19200

Then "Write Configurations to I/O Module", if module is correctly connected in INIT* to GND state, it can get successful message and finish the first one module.

Configuration AI/DO Protocol (INIT*) Address Baud Rate (INIT*) Parity (INIT*)	Alarm DI Host WDT Command: Mod bus R TU • 1 * [01H] 19201 • N,8,1-None Parity •	Configure tAD4P2C2 OK
Cnecksum (INI I*) Analog Format Sample Mode Response Delay	Engineering Format Normal Mode	Setting Remote I/O Configurations OK: Follow the instructions below: 1. Make sure the Dip Switch is set to Normal (or Run). 2. Re-power on the module to make new settings effective. 3. Search for the module again and confirm the settings. 確定
Exit	Write Configurations to I/O Module	Save Configurations to the File

Note 1: Make sure to **power on module in INIT* to GND** state the USB driver is correctly installed if use USB to RS-485 converter.

Note 2: When change the I/O configurations, it operates in offline state, it does not send commands to module till click the "Write Configurations to I/O Module".

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Step 4: Turn normal state Step 5: Conn Step 6: Chan	Step 4: Turn off the power and remove the previous configured tAD4P2C2 and let the INIT* in normal state. Step 5: Connect the next tAD4P2C2 in INIT* to GND state and turn on the power. Step 6: Change the Address and "Write Configurations to I/O Module".						
tAD4P2C2 Firmwa	re[A104] [Offline Configuration	μο. 1			-		×)
Configuration AI/	DO Alarm DI Host WDT	Commands Log	About				
Protocol (INIT*)	Modbus RTU 👻						
Address	2 🜔 [02H]	٦ .					
Baud Rate (INIT*)) 19200 -						
Parity (INIT*)	N,8,1-None Parity 👻						
Checksum (INIT*)	Disable 👻						
Analog Format	Engineering Format 🛛 👻						
Sample Mode	Normal Mode 🗸 🗸						
Response Delay	0 ms						
Exit	Write Configurations to I/O Mod	lule	Save Configuration	ns to the File			
Index[0] :: MODULE	_CONFIG[250200070021F]; [Cor	mmand Updated OI	K];==> (NoError)				
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Step 8: After finish all modules, we can create the folder for each application and save the configurations to file.

tAD4P2C2 Firmware[0000] [Offline Configuration]		×
Configuration AI/DO	Alarm DI Host WDT Comm	ands Log About	
Protocol (INIT*)	Modbus R TU 👻		
Address	1 🔶 [01H]	Comments of the Configured File	
Baud Rate (INIT*)	19200 -	Date Time = 11/14/2019	
Parity (INIT*)	N,8,1-None Parity 🛛 🗸	Description = For APP1	
Checksum (INIT*)	Disable 👻		
Analog Format	Engineering Format 🛛 🖵		
Sample Mode	Normal Mode 🗸		
Response Delay	0 ms	•	
		Save As Can	cel
Exit	Write Configurations to I/O Module	Save Configurations to the File	
Index[0] :: MODULE_C	ONFIG[250100070021F]; [Command	Updated OK];==> (NoError)	
	App1	11/14/2019 3:49	
	App2	11/14/2019 3:49	
	🗉 퉬 Арр3	11/14/2019 3:50	
	E App3 R0_tAD4P2C2.ini	11/14/2019 3:50	

Note 1: don't change the file name.

Note 2: this is an offline operation, to save the configuration file does not need to connect to module.

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Step 9: It can load the previous configured file to review the module's setting and write to module.

Remote I/O Configuration	Remote I/O Configuration
Remote I/O INIT* Quick Configuration About	Remote I/O INIT* Quick Configuration About
COM Port COM1 Please make sure the INIT* is connected to GND	COM Port COM1 Please make sure the INIT* is connected to GND
Configure es INIT* Status	Configure as INIT * Status
Configure I/O by File	Configure I/O by File
	Check comments of the configuration
DCON_Utility_Pro remote_config App1 + 4	Date Time = 11/14/2019
	Description = For APP1
名稱 修改日期	
R0_tAD4P2C2.ini 11/14/2019 4:14	
	Next Cancel
Exit	Exit

tAD4P2C2 Firmware[A104] [Offline Configuration]	tAD4P2C2 Firmware[A104] [Offline Configuration]	
Configuration AI/DO Alam DI Host WDT Commands Log About	Configuration Al/DO Alarm DI Host WDT Commands Log About	
rotocol (INIT*) Modbus RTU	AI Value Type Code Alarm Mode	High Alarm Limit Low Alarm Limit
ddress 1 A 01H	♥ CH.00 +000.000 [07] 4 ~ 20mA ▼ Disable ▼	20 4
aud Rate (INIT*) 19200		20 4
arity (INIT*) N.8,1-None Parity	[V] CH.02 +000.000 [07] 4 ~ 20mA ▼	Set Alarm
(Dacksum (INIT*) Disable	EI CH 03 +000.000 10714~20mA	
analog Format Engineering Format Supple Mode Normal Mode Reponse Delay 0 ma	Set all channels as CH0 DO Bit Status D00 D01 Set to [Power % Read DO	High Alarm Shehu Low Alarm Shehu CH 500 Cherr CH 600 Cherr CH 501 Cherr CH 501 Cherr On Yahan] Set to [Safe Yahan]
Exit Write Configurations to I/O Module Seve Configurations to the Fair	Sever Configurations to J/O Module Sever Configurations to I/O Module Sever Configurations to the File	s

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