I-7017R-A5, M-7017R-A5 Quick Start Guide

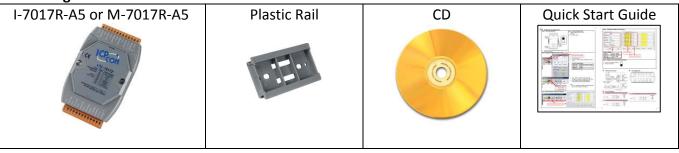
Warranty

All products manufactured by ICP DAS are under warranty regarding defective materials for a period of one year from the date of delivery to the original purchaser.

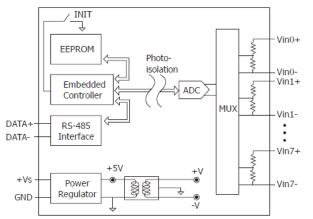
Warning

ICP DAS assumes no liability for damages resulting from the use of this product. ICP DAS reserves the right to change this manual at any time without notification. The information furnished by ICP DAS is believed to be accurate and reliable. However, no responsibility is assumed by ICP DAS for its use, or for any infringements of patents or other rights of third parties resulting from its use.

Packing List

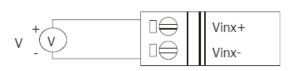


Internal I/O Structure



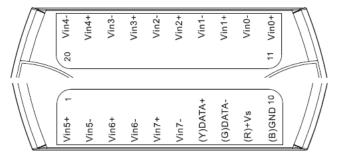
Wire Connections

Voltage Input Wire Connection



TYPE	SIGNAL	
1B	± 150 V	
1C	± 50 V	

Pin Assignments



Modbus Table (M-7017R-A5 only)

Address	Description	R/W		
10129 ~	Over/under range status of channel 0	R		
10136	to 7 for 4 ~ 20mA or 0 ~ 20mA ranges			
00129 ~				
00136				
30001 ~	Analog input value of channel 0 to 7	R		
30008				
40001 ~				
40008				
40481	Firmware version (low word)	R		
40482	Firmware version (high word)	R		
40483	Module name (low word)	R		
40484	Module name (high word)	R		
40485	Module address, valid range: 1 ~ 247	R/W		
40486	Bits 5:0	R/W		
	Baud rate, 0x03 ~ 0x0A			
	Code 0x03 0x04 0x05 0x06			
	Baud 1200 2400 4800 9600			
	Code 0x07 0x08 0x09 0x0A			
	Baud 19200 38400 57600 115200			
	Bits 7:6			
	00: no parity, 1 stop bit			
	01: no parity, 2 stop bit			
	10: even parity, 1 stop bit			
	11: odd parity, 1 stop bit			
40487	Type code	R/W		

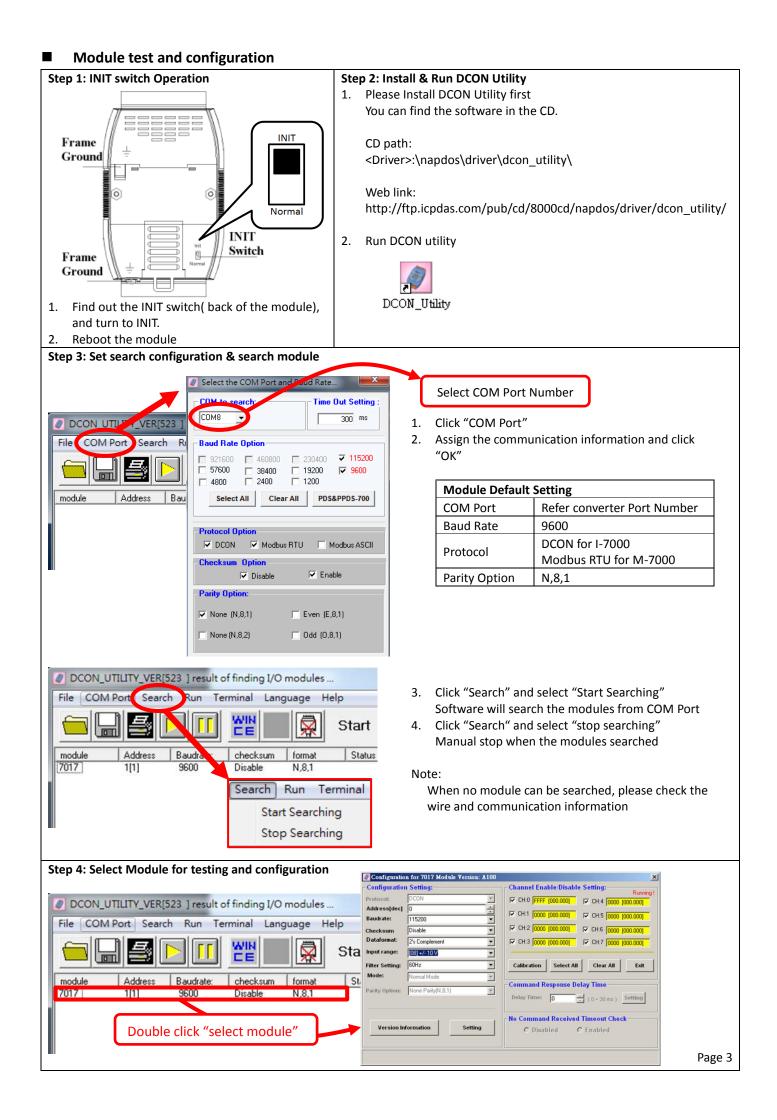
Address	Description	R/W	
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W	
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W	
40490	Channel enable/disable, 00h ~ FFh	R/W	
40492	Host watchdog timeout count, write 0 to clear	R/W	
00257	Protocol, 0: DCON, 1: Modbus RTU		
00259	Filter setting, 0: 60Hz rejection, 1: 50Hz rejection	R/W	
00261	1: enable, 0: disable host watchdog	R/W	
00269	Modbus data format, 0: hex, 1: engineering	R/W	
00270	00270 Host watch dog timeout status, write 1 to clear host watch dog timeout status		
00271	1: enable, 0: disable fast mode	R/W	
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R	

DCON Protocol

Functions	Command	Response	Notes
Read module name	\$AAM	!AA(Data)	AA: address number
Read module firmware version	\$AAF	!AA(Data)	
Read all analog input data	#aa	>(data)	
Read analog input data of each channel (<=16 channel)	#aai	>(data)	i: channel number (Hex)
Read analog input data of each channel (>16 channel)	#aaii	>(data)	ii: channel number (Hex)

If you want to know the detail DCON protocol, please check it from CD or web CD path: $\n plos \000\manual \$

Web: ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/7000/manual/



Step 5: Configur	ration Settings & Chani	nel Settings		
			-1	
	r 7017 Module Version: A100		×	
Configuration Se		Channel Enable/Disable Setting:		
Protocol: DCC		CH:0 FFFF [000.000]		_
Address[dec] 0	<u> </u>	☑ CH:1 0000 [000.000] ☑ CH:5 0000 [000.000]	Channel Star	tus
Baudrate: 115				
Checksum Disa				
	Complement 🗾	CH:3 0000 [000.000]		
Input range:	+/- 10 V			
Filter Setting: 60H	z 💌	Calibration Select All Clear All Exit		
Mode: Nor	mal Mode 🗾 🔽		Module Settings	
Parity Option: Nor	ne Parity(N,8,1)	Command Response Delay Time	Protocol	DCON / Modbus
		Delay Time: 0 (0 ~ 30 ms) Setting	Address	1~255 (0:INIT)
			Baud rate	1200~115200
New Information		No Command Received Timeout Check		
Version Inform	ation Setting	C Disabled C Enabled	Parity option	N,8,1
			Input range	Depends on signal
				sources
Ston 6. Change	to normal mode and k	eep the settings		
Step 6: Change	to normal mode and ke			
1. Turn the INI	T Switch to Normal.			
 Ium the initial Reboot the 				

Trouble Shooting

Q1. How to do when forgot module address or baud rate?

Please turn to INIT mode, and run DCON Utility to search. The module supports DCON protocol at the INIT mode. And the address is 0. The communication setting is "9600,N,8,1".

Q2. How to configure the I-7000 and M-7000 modules? ICP DAS provide DCON Utility to configure I-7000 and M-7000 modules. Please download the last version from: http://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/dcon_utility/

Q3. How to calibrate the analog input module?

Usually it is not necessary to calibrate the analog input module.

However, in case you need to perform this operation, we provide a function to calibrate the module. Please refer to user manual 1.10.

Notice:

- 1. Please update DCON Utility to version 5.2.3 or more.
- 2. Keep the module running more than 30 minutes to warm-up.

Q4. How to programming with I-7000 or M-7000 by C#, VB, VC?

ICP DAS I-7000 and M-7000 series both support DCON protocol. And Only M-7000 series supports Modbus protocol. For DCON protocol, please download SDK and Demo from: http://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/dcon_dll_new/ For Modbus protocol, please refer this web link: http://www.icpdas.com/products/PAC/i-8000/modbus.htm

If there is any other question, please feel free to contact us. Email: service@icpdas.com Website: http://www.icpdas.com.tw/contact_us/contact_us.html