I-7017(F), M-7017 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.

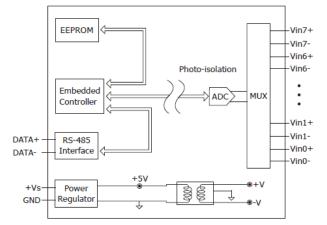
Warning

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.

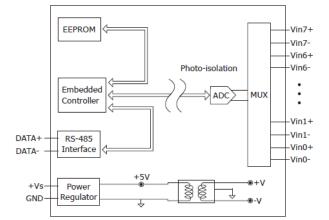
Packing List



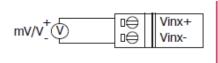
■ Internal I/O Structure < I-7017(F) >

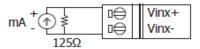


Internal I/O Structure < M-7017 >



Wire Connections < M-7017 , I-7017(F) Channel 0 – 5 >



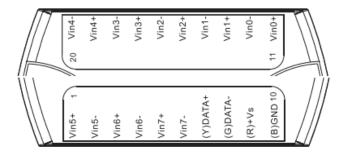


Requires Optional External 125 Ω Resistor

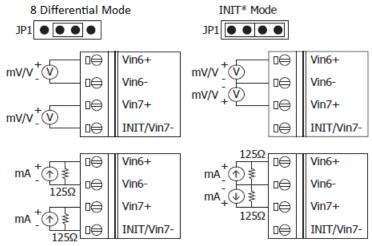
Pin Assignments < I-7017(F) >



Pin Assignments < M-7017 >



■ Wire Connections < I-7017(F) Channel 6 – 7 >



Requires Optional External 125 Ω Resistor

NOTE: I-7017(F) channel 6 and channel 7 can use single-end mode

Address	Description					R/W	
10129 ~	Over/under range status of channel 0				R		
10136	to 7 for 4 ~ 20mA or 0 ~ 20mA ranges				s		
00129 ~							
00136							
30001 ~	Analog	g input '	value o	f chanr	nel 0 to 7		R
30008							
40001 ~							
40008							
40481	Firmware version (low word)					R	
40482	Firmwa	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						

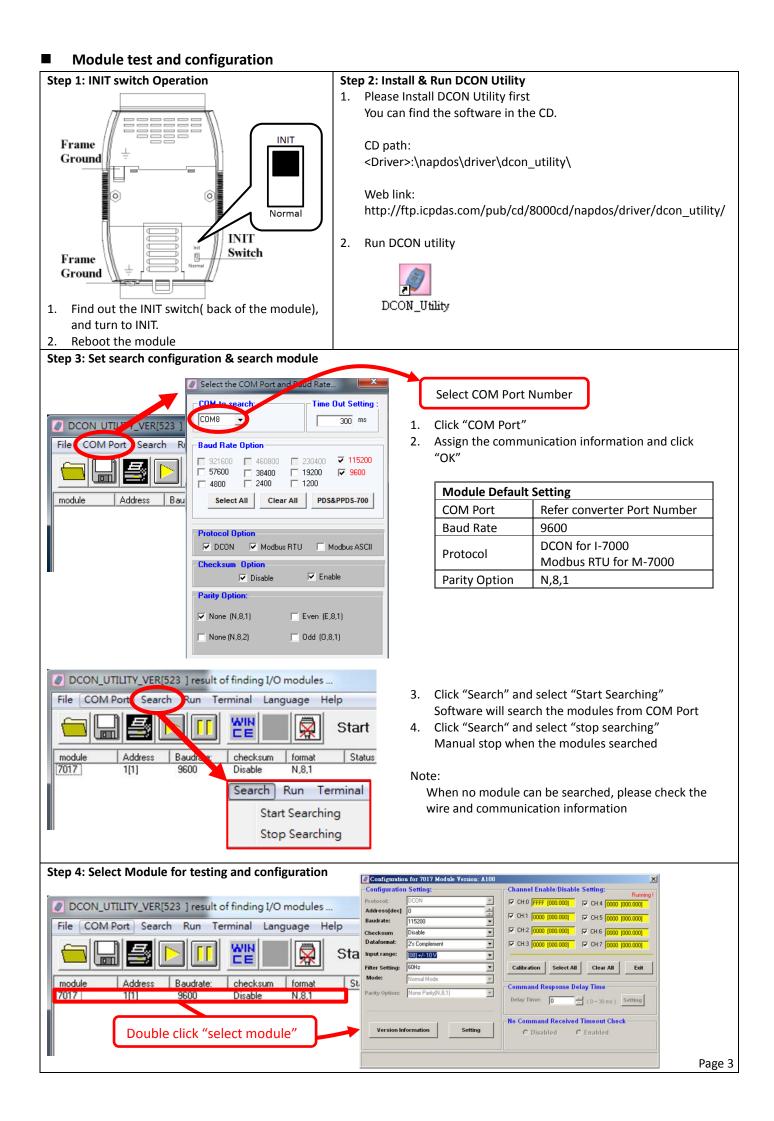
Modbus	Table	(M-7017	only)
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Address	Description	R/W
40487	Type code	R/W
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W
40490	Channel enable/disable, 00h ~ FFh	R/W
40492	Host watchdog timeout count, write 0 to clear	R/W
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W
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	Host watch dog timeout status, write 1 to clear host watch dog timeout status	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: \\napdos\7000\manual\ Web: ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/7000/manual/



	DCON	Channel Enable/D ⊂ CH:0 FFFF (000.0 ⊂ CH:1 0000 (000.0 ⊂ CH:2 0000 (000.0 ⊂ CH:3 0000 (000.0	00] IZ CH:4 0000 [0 00] IZ CH:5 0000 [0 00] IZ CH:6 0000 [0	000.000]	Channel Sta	tus
Mode: Parity Option: Version In	Normal Mode	Command Responder Delay Time: 0 No Command Rec C Disabled		Setting k	Module Setting Protocol Address Baud rate Parity option Input range	s DCON / Modbus 1~255 (0:INIT) 1200~115200 N,8,1 Depends on signal sources
Step 6: Change to normal mode and keep the settings INIT 1. Turn the INIT Switch to Normal. INIT 2. Reboot the module Normal						

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. What is individual channel configuration?

I-7017(F) and M-7017 do not provide the "individual channel configuration". If you need this function, please refer I-7017Z or M-7017Z.

Q4. How to measure the current?

I-7017(F) and M-7017 require optional external resistance (125Ω) for current measurement. Please refer wired connections diagram. And then select a suitable input range by DCON Utility. Or please use our I-7017(F)C or M-7017C modules.

Q5. 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.

Q6. 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