

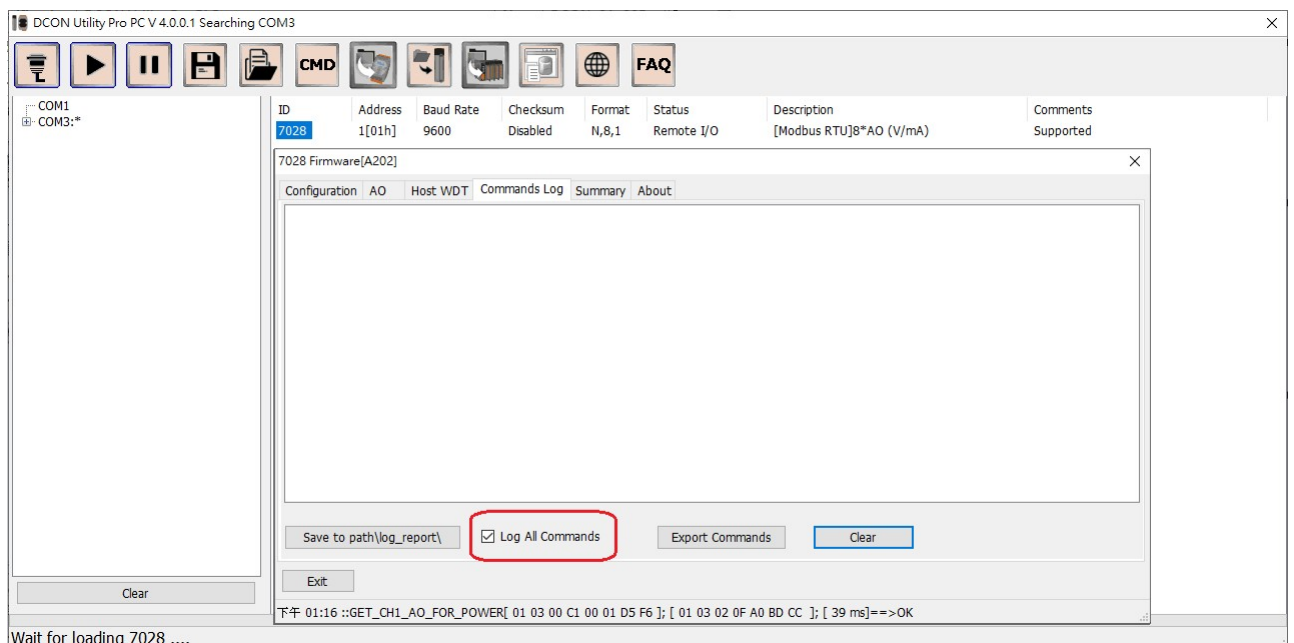
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Author	Martin	Version	1.0.1	Date	2020/12/23	Page	1/2

How to query the commands used by the module through DCON Utility Pro?

A. Query module usage commands through actual manipulating module

DCON Utility Pro provides several quick and convenient ways for developers to query the test module usage commands.

1. After searching for the module and entering the configuration form, switch to the "Commands Log" tab and let the "Log All Commands" option enable.



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2. Switch to the I/O operation sheet. For example, if you want to know the AO output and set the AO type code command, you can directly operate, and then switch to the "Commands Log" tab to see the commands sent by DCON Utility Pro during actual operation.

7028 Firmware[A202]

Configuration AO Host WDT Commands Log Summary About

☐ Set AO value with Engineering format

Type Code	Slew Rate	Wiring	AO Value	ReadBack	Range	Output
CH:0 [04] 0 ~ +5 V	immediate	Norma	3000	3000	0~5000	3000
CH:1 [01] +4 ~ +20	immediate	Open	4000	4000	4000~20000	4000
CH:2 [05] +/- 5 V	0.0625 V/se	Norma	0	0	-5000~5000	0
CH:3 [05] +/- 5 V	0.0625 V/se	Norma	0	0	-5000~5000	0
CH:4 [05] +/- 5 V	immediate	Norma	0	0	-5000~5000	0
CH:5 [05] +/- 5 V	0.0625 V/se	Norma	0	0	-5000~5000	0
CH:6 [05] +/- 5 V	0.0625 V/se	Norma	0	0	-5000~5000	0
CH:7 [05] +/- 5 V	0.0625 V/se	Norma	0	0	-5000~5000	0

Set Channel Type Code As CH 0 Set [Power On Value] Set [Safe Value]

☒ Read AO
☐ Read Power On Value
☐ Read Safe Value

Exit

下午 01:21 ::GET_CH1_AO_FOR_POWER[01 03 00 C1 00 01 D5 F6]; [01 03 02 0F A0 BD CC]; [29 ms]==>OK

7028 Firmware[A202]

Configuration AO Host WDT Commands Log Summary About

下午 03:00 :: OUTPUT_CH0_AO [01 06 00 00 0B B8 8E 88]; [01 06 00 00 0B B8 8E 88]; [44 ms]==>OK
 下午 03:00 ::SET_CH1_AO_TYPE_CODE[01 06 01 01 00 01 18 36]; [01 06 01 01 00 01 18 36]; [42 ms]==>OK
 下午 03:00 ::SET_CH1_AO_SLEW_RATE[01 06 01 21 00 00 D8 3C]; [01 06 01 21 00 00 D8 3C]; [44 ms]==>OK
 下午 03:00 ::GET_CH1_AO_TYPE_CODE[01 03 01 01 00 01 D4 36]; [01 03 02 00 01 79 84]; [45 ms]==>OK
 下午 03:00 ::GET_CH1_AO_SLEW_RATE[01 03 01 21 00 01 D5 FC]; [01 03 02 00 00 B8 44]; [29 ms]==>OK
 下午 03:00 ::GET_CH1_AO_FOR_SAFE[01 03 00 61 00 01 D5 D4]; [01 03 02 0F A0 BD CC]; [33 ms]==>OK
 下午 03:00 ::GET_CH1_AO_FOR_POWER[01 03 00 C1 00 01 D5 F6]; [01 03 02 0F A0 BD CC]; [33 ms]==>OK

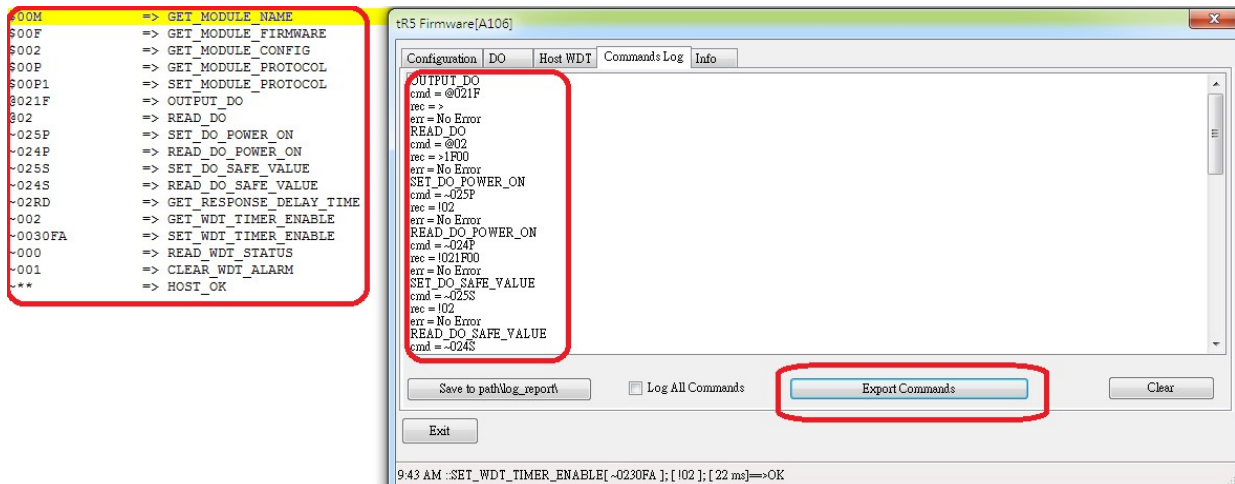
Save to path\log_report\ ☒ Log All Commands Export Commands Clear

Exit

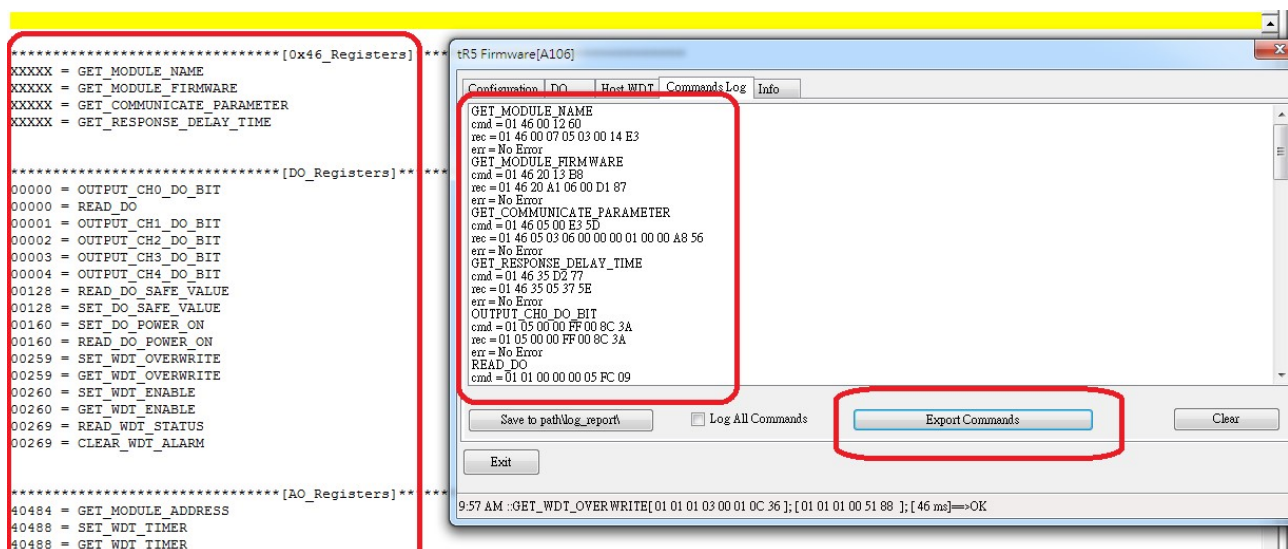
下午 03:00 ::GET_CH1_AO_FOR_POWER[01 03 00 C1 00 01 D5 F6]; [01 03 02 0F A0 BD CC]; [33 ms]==>OK

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3. Switch to the Command Log tab and press "Export Commands". The program will display all the command data that has been operated and the corresponding command list file. The file path of the DCON module is in DCON Utility Pro \ dcon \.



Modbus module command files are stored in DCON Utility Pro \ modbus \



4. Use the "Terminal Command Line" tool of DCON Utility Pro to select the module name according to the searched communication parameters. The relevant commands of this module will appear. Click the command name directly to test directly.

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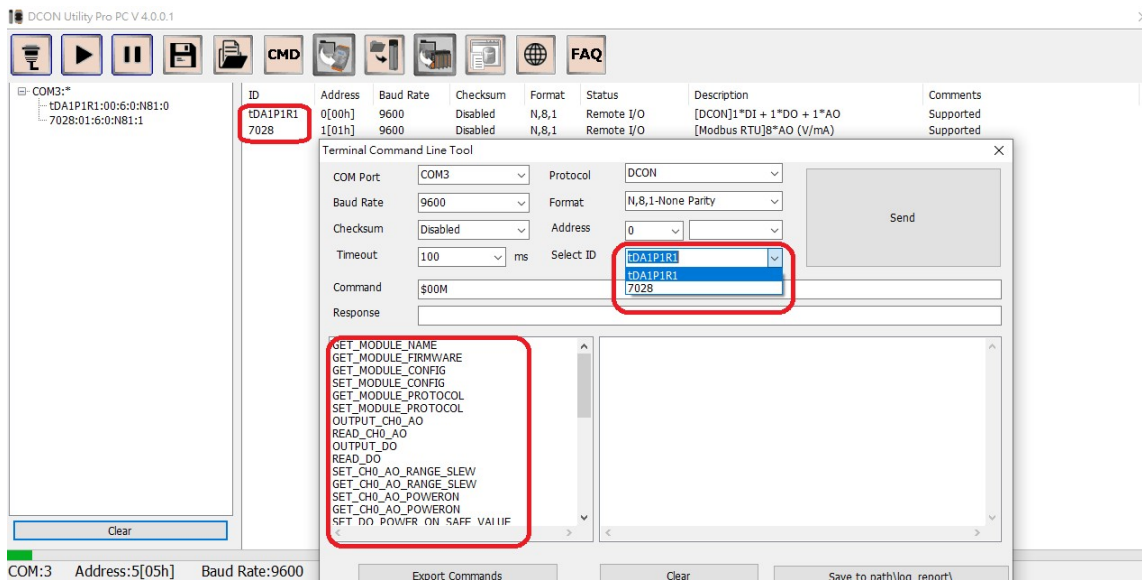
B. Query module usage commands through Terminal Command Line

Tool.



If the search process is completed in advance, then open the command line tool

1. Automatically load the I/O list searched by COM Port.
2. Select the module name, it will quote the correct communication protocol and parameters found, and list the commands used by the module. Customers do not need to consult the manual.



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3. Generate command list

For developers, use the "Export Commands" of the command line tool to generate the corresponding command table. The generated Modbus address reference table is especially useful for Modbus developer.

The screenshot shows the DCON Utility Pro PC V 4.0.0.1 interface. The 'Terminal Command Line Tool' window is open, displaying a list of commands and their corresponding Modbus addresses. The commands are listed in a table with columns for ID, Address, Baud Rate, Checksum, Format, and Status. The commands include:

- 00224 = READ_WIRING_STATUS
- 00259 = GET_WDT_OVERWRITE
- 00259 = SET_WDT_OVERWRITE
- 00260 = SET_WDT_ENABLE
- 00260 = GET_WDT_ENABLE
- 00268 = SET_MODBUS_DATAFORMAT
- 00268 = GET_MODBUS_DATAFORMAT
- 00269 = READ_WDT_STATUS
- 00269 = CLEAR_WDT_ALARM

The 'Export Commands' button is highlighted with a red box and a red arrow pointing to it. The button is located at the bottom of the 'Terminal Command Line Tool' window.

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Note 1: If you use DCON Protocol to develop programs, please download PACSDK and other related manuals and sample programs from the official website

<https://www.icpdas.com/en/download/index.php?root=&model=&kw=PACSDK%20PC>

Note 2: The command line tool program can also query modules that are not connected.

