



Making Data Acquisition Easy

CAGE/NCAGE CODE: 3FNFO

# M-7060

## 4-channel Digital Input and 4-channel Relay Output Data Acquisition Module

### Quick Start Guide

Product Website:

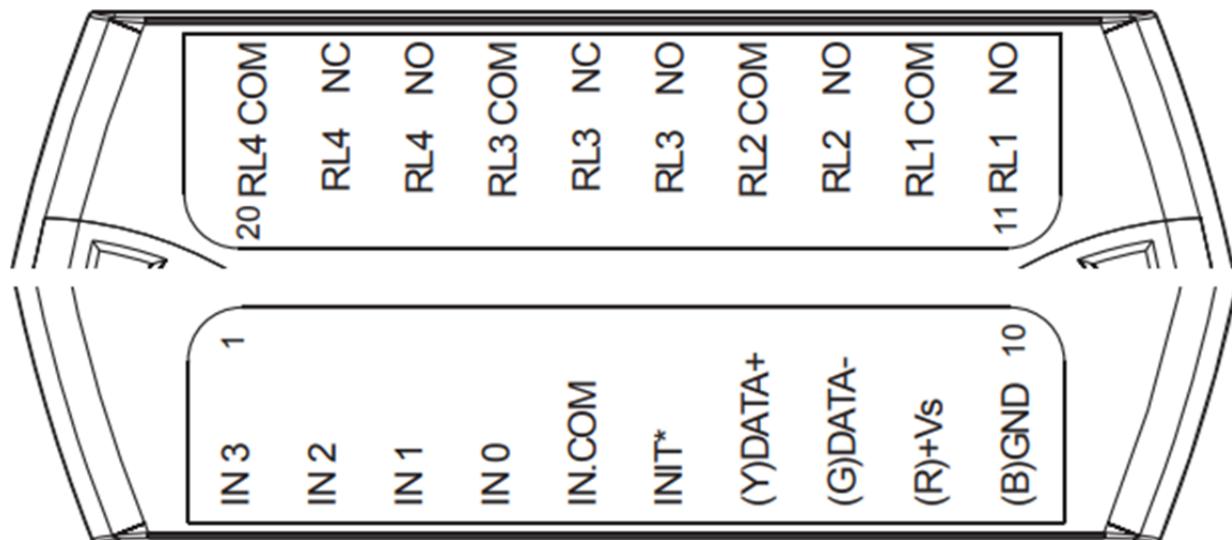
[https://www.icpdas-usa.com/m\\_7060\\_m\\_7060d](https://www.icpdas-usa.com/m_7060_m_7060d)

[http://www.icpdas-usa.com/dcon\\_utility\\_pro.html](http://www.icpdas-usa.com/dcon_utility_pro.html)

## 1. Introduction

The 7060 series provides 4 digital input channels, 2 Form A and 2 Form C signal relay output channels, while the M-7060P provides 4 digital input channels, 2 Form A and 2 Form C power relay output channels. All digital input channels can be used as 16-bit counters. In addition, the digital input channels can be selected either as sink- or source-type via wire connections. The "D" versions of the 7060 series provide eight LED indicators that can be used to monitor the status of the digital input and relay output. The "M" versions of the 7060 series support both the Modbus RTU and DCON protocols, which can be configured via software. There are also options for configuring power-on and safe values. 4 kV ESD protection and 3750 VDC intra-module isolation are also provided to enhance noise protection capabilities in industrial environments. The 7060 series is the ideal solution for small signal switching applications, while the M-7060P is the perfect solution for high power applications.

## 2. Terminal Assignment

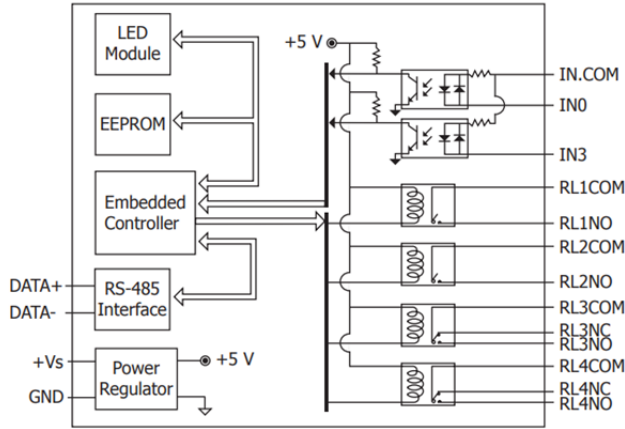




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### 3. Block/ Wiring Diagram



Digital Input/ Counter	ON State Readback as 1	OFF State Readback as 0
I-7060(D)/ M-7060(D)	OPEN or <1 VDC	+4 ~ +30 VDC
M-7060P(D)	OPEN or <4 VDC	+10 ~ +50 VDC
Sink		
Source		

Output Type	ON State Readback as 1	OFF State Readback as 0
Relay Output in RL1 and RL2		
Relay Output in RL3 and RL4		

M-7060 4-channel DI and 4-channel Relay Output DAQ Module- QuickStart (Mar/2019)

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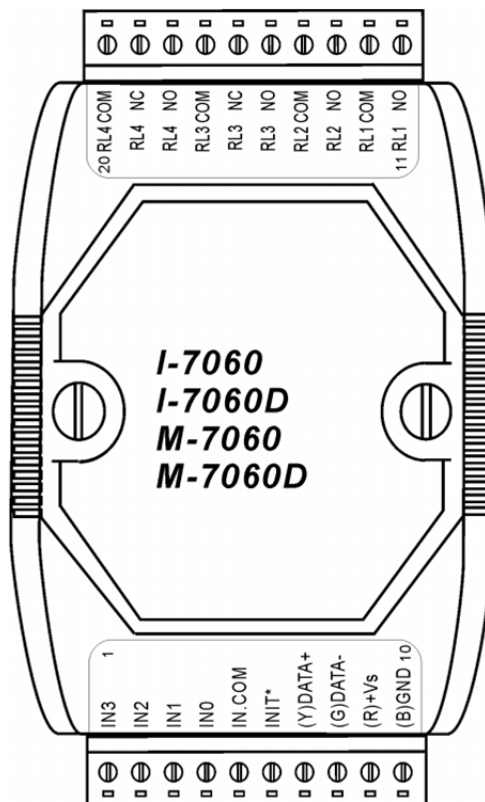
## 4. Default Settings

- Module Address: 01
- DIO Type: Type 40
- Baud Rate: 9600 bps
- Checksum disabled

## 5. Configuration

To install the module, follow the steps below:

1. Connect the digital input and output.
2. Connect the module to the RS-485 network using the DATA+ and DATA- terminals. If the host is only equipped with an RS-232 interface, then an RS-232 to RS-485 converter will be required.
3. Connect the module to the power supply using the +Vs and GND terminals. Note that the voltage supplied should be in the range of +10 to +30V DC.





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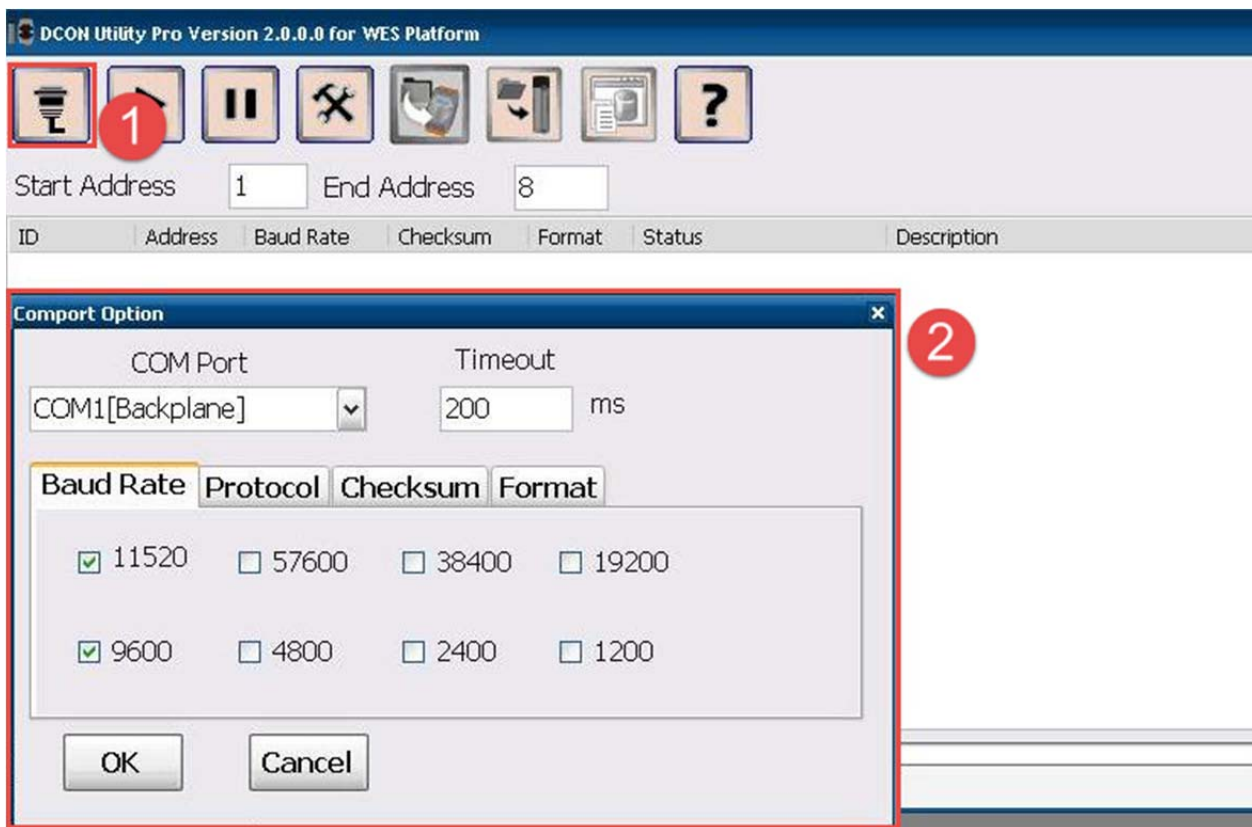
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4. Open DCON utility pro

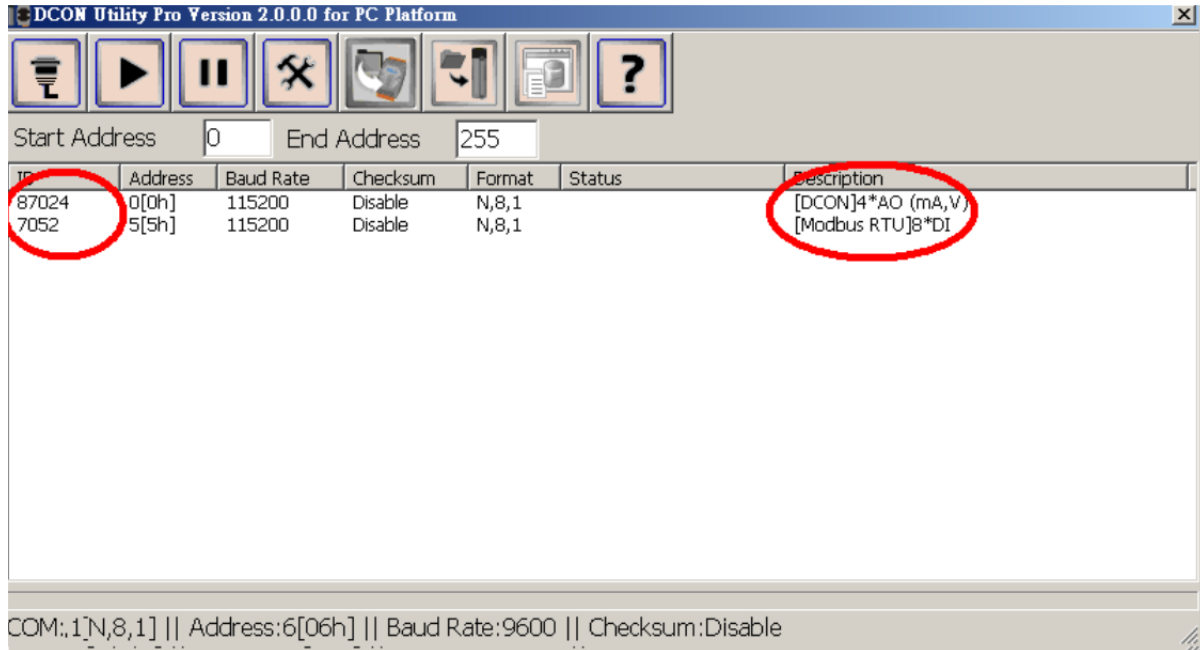
- 1 click on COM port(first icon).
- 2 It can select multi-options such as Baud Rate, Protocol, Checksum, and Format to search module. The default settings for the module can be found in Section 3. Click OK after selecting the COM port setting.



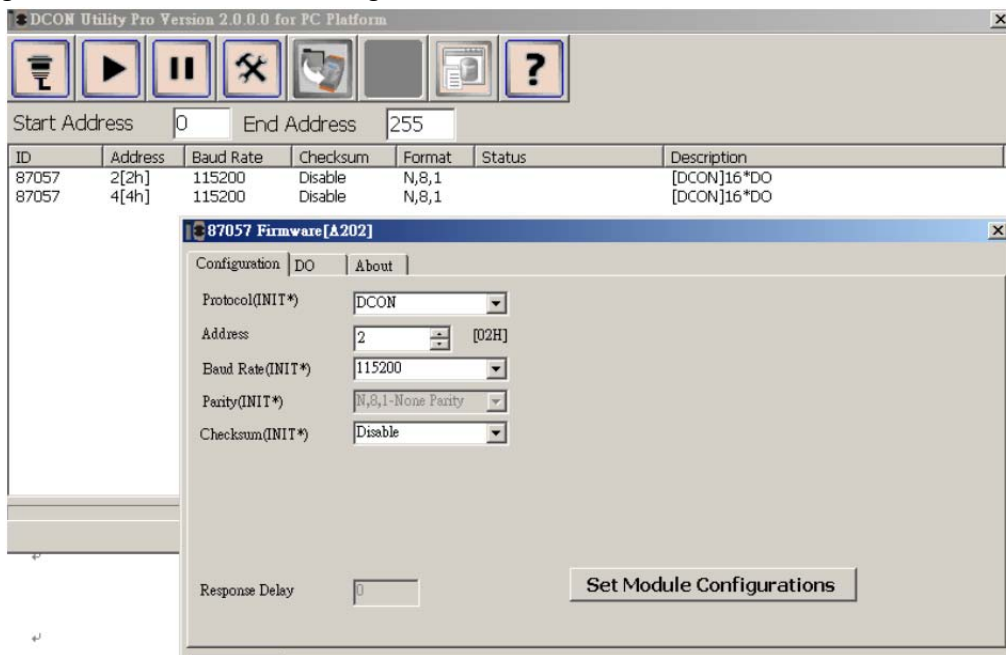


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5. DCON utility pro will search for the selected COM port according the setting previously set. DCON Utility Pro supports DCON and Modbus protocol for all ICPDAS and the others modules.



6. Configuration I/O module setting on PC

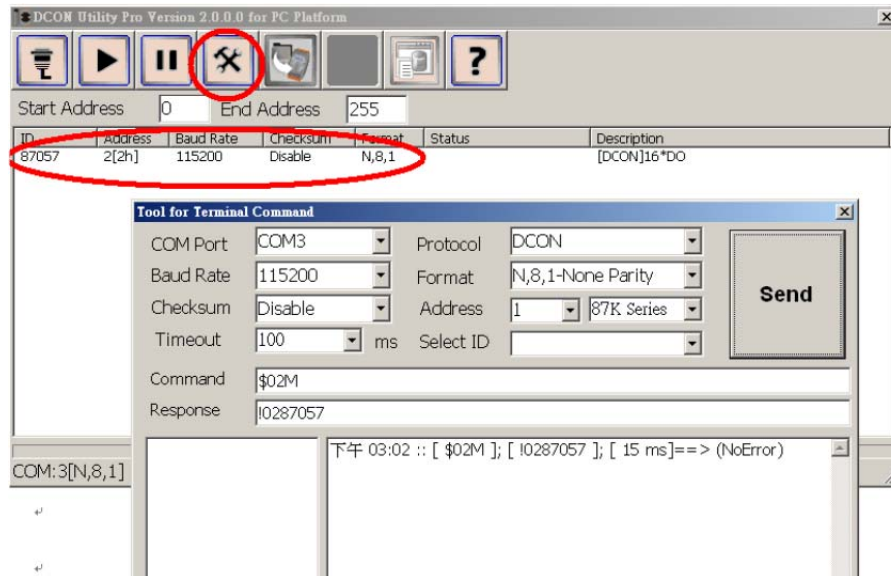




7. For I-7000 modules, DCON utility pro terminal can send command to the module. See user manual Sections 2 for details command.

Configure the module: sending the %AANNTTCFF command. See user manual Section 2 for details.

Read data from the input channels: send either the #AA or #AAN command to the module.



8. If user doesn't know command, user can select Address and ID, it will show some refer commands as below. User can select necessary command to test or debug modules.

