

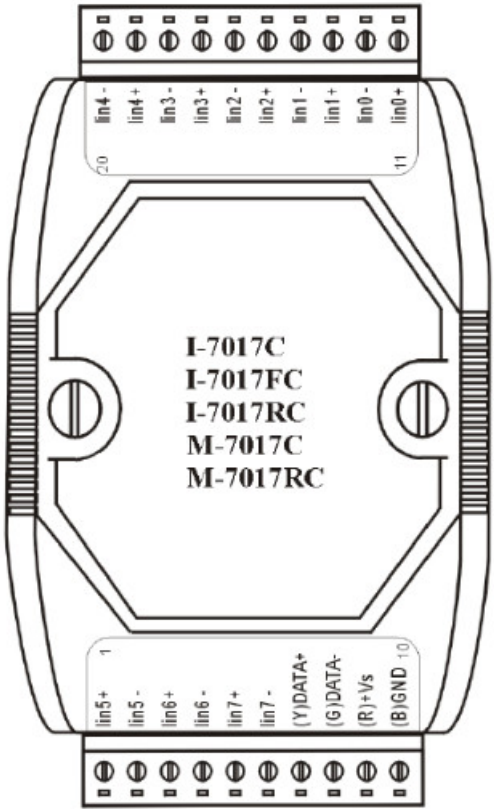


Logicbus M-7017C 8-channel Current Input Data Acquisition Module User Guide

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8-channel Current Input Data Acquisition Module User Guide



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M-7017C 8-channel Current Input Data Acquisition Module

Product Info:

http://www.icpdas-usa.com/m_7017c.html

http://www.icpdas-usa.com/dcon_utility_pro.html

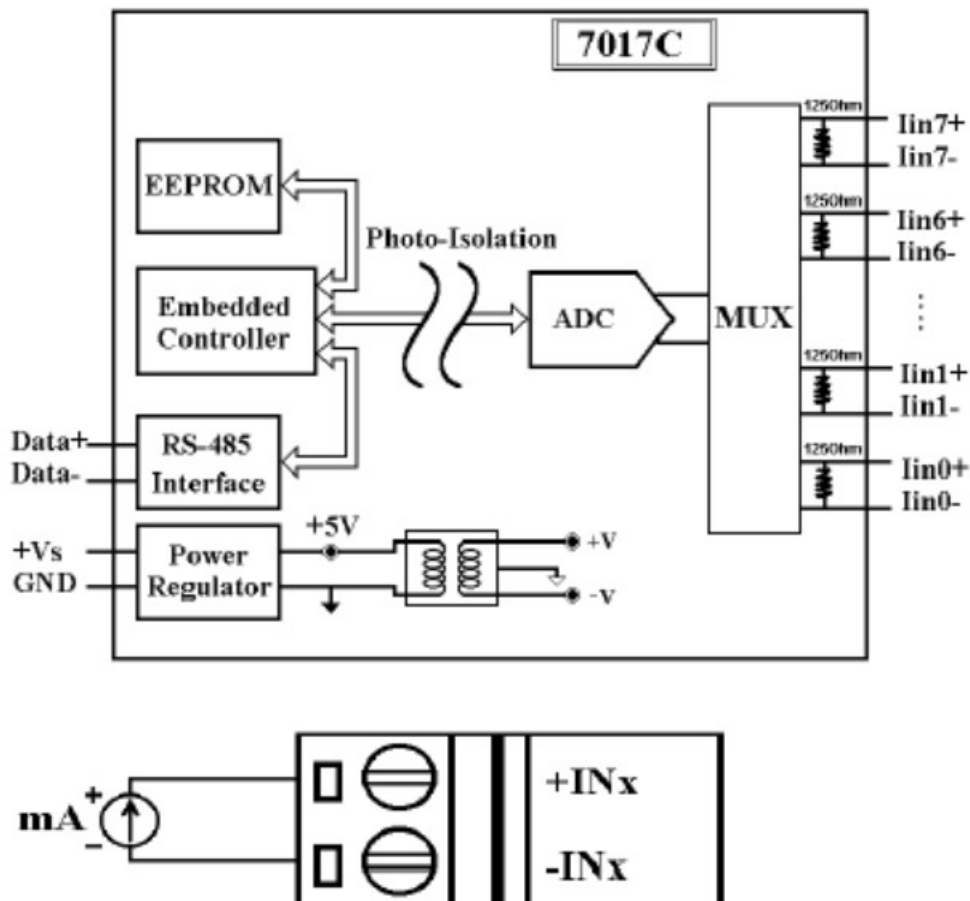
Introduction

M-7017C is an 8-channel Analog Input data acquisition remote I/O module that supports Modbus RTU. It supports both current input types $\pm 20\text{mA}$, $0\text{--}20\text{mA}$ and $4\text{--}20\text{mA}$ (requires optional external 125Ω resistor). With 240Vrms over-voltage protection and 4KV ESD Protection for each channel, it offers a safe and cost-effective solution for your data acquisition needs. It can be remotely controlled using a set of commands called DCON protocol. With the Modbus RTU protocol, it can easily communicate with most SCADA/ HMI software and PLCs.

Terminal Assignment



Block/ Wiring Diagram



Default Settings

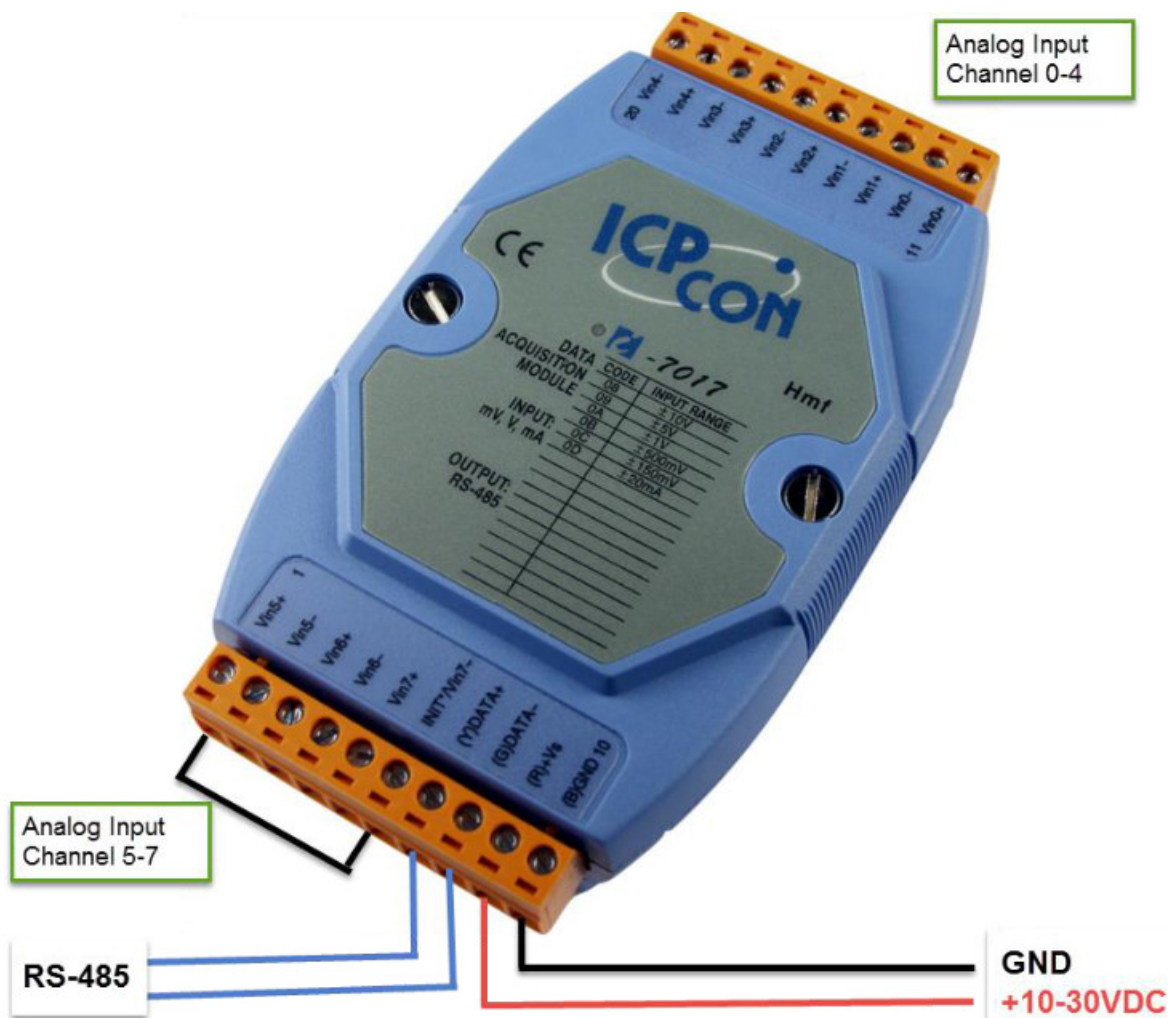
Default settings for the M-7017, M-7018, and M-7019 series modules are:

- Protocol: Modbus RTU
- Module address: 01
- Analog input type:
 - Type 08, -10V to 10V, for the M-7017 and M-7019 series
 - Type 1B, -150V to 150V, for the M-7017R-A5
 - Type 0D, -20mA to +20mA for the M-7017C and M-7017RC
 - Type 05, -2.5V to 2.5V, for the M-7018 series
- Baud Rate: 9600 bps
- Filter set at 60Hz rejection (Not used by the M-7019R, firmware version B2.6 and earlier)

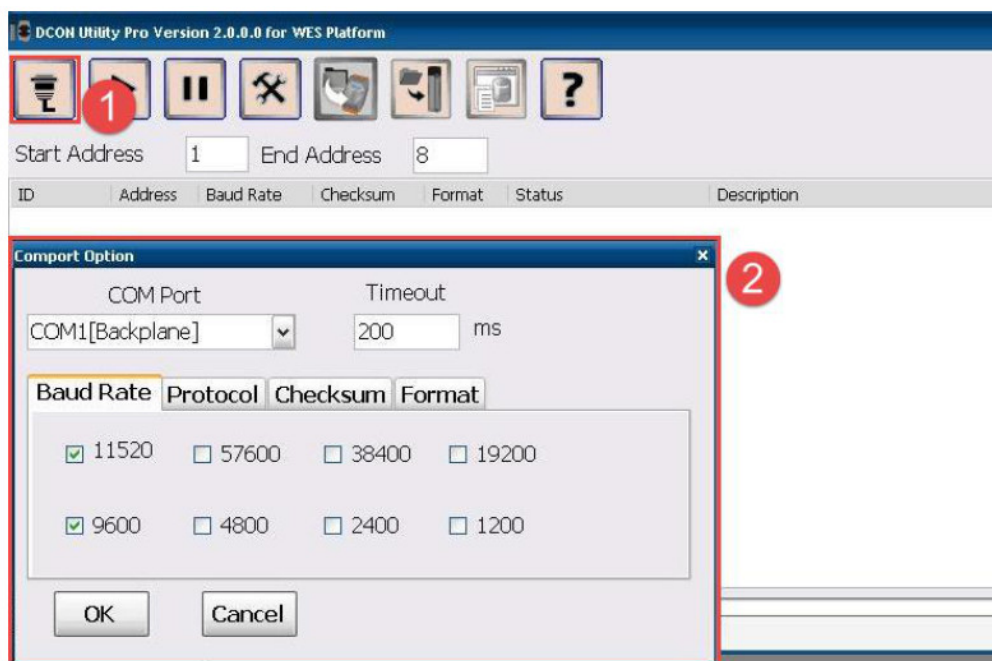
Configuration

To install the module, follow the steps below:

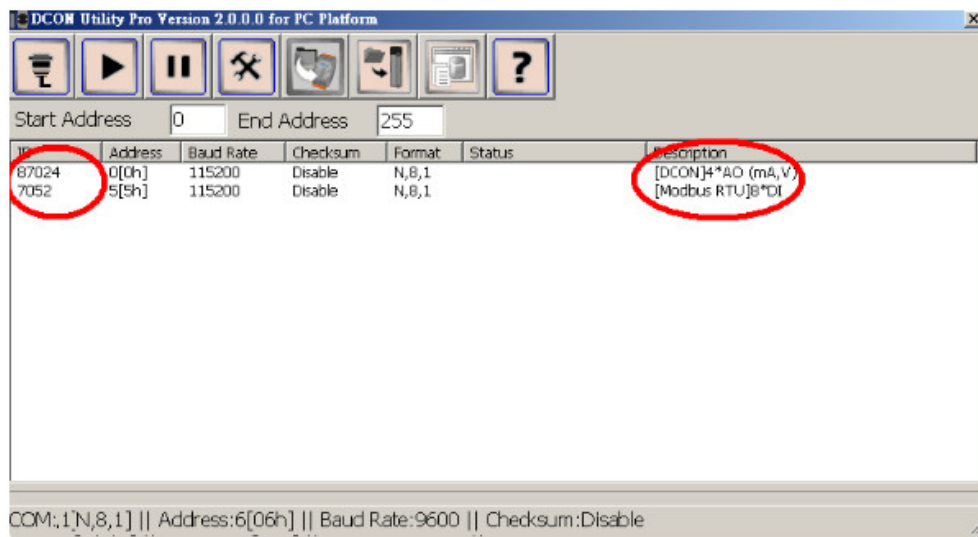
1. Connect the thermistor analog input.
2. Connect the module to the RS-485 network using the DATA+ and DATA- terminals. If the host is only equipped with an RS-232 interface, then an RS-232 to RS-485 converter will be required.
3. Connect the module to the power supply using the +Vs and GND terminals.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



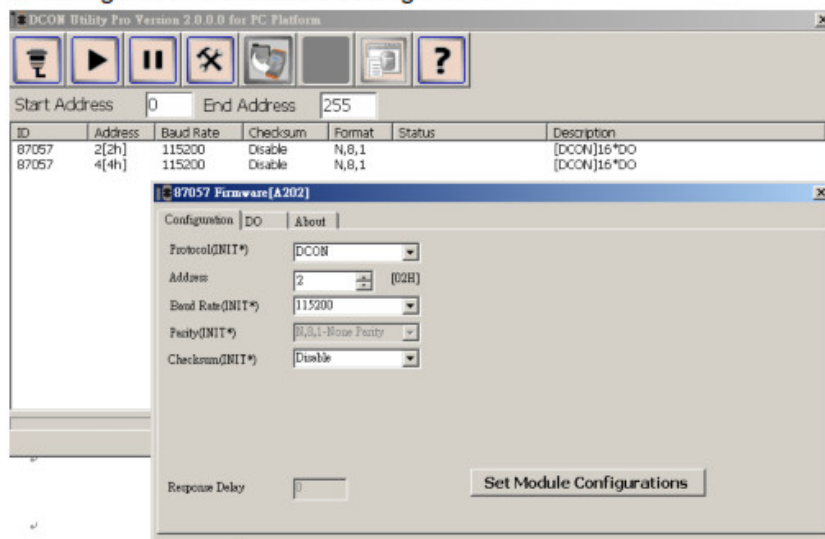
4. Open DCON utility pro.
 1. Click on the COM port(first icon)
 2. It can select multi-options such as Baud Rate, Protocol, Checksum, and Format to search the module. The default settings for the module can be found in Section 3. Click OK after selecting the COM port setting.



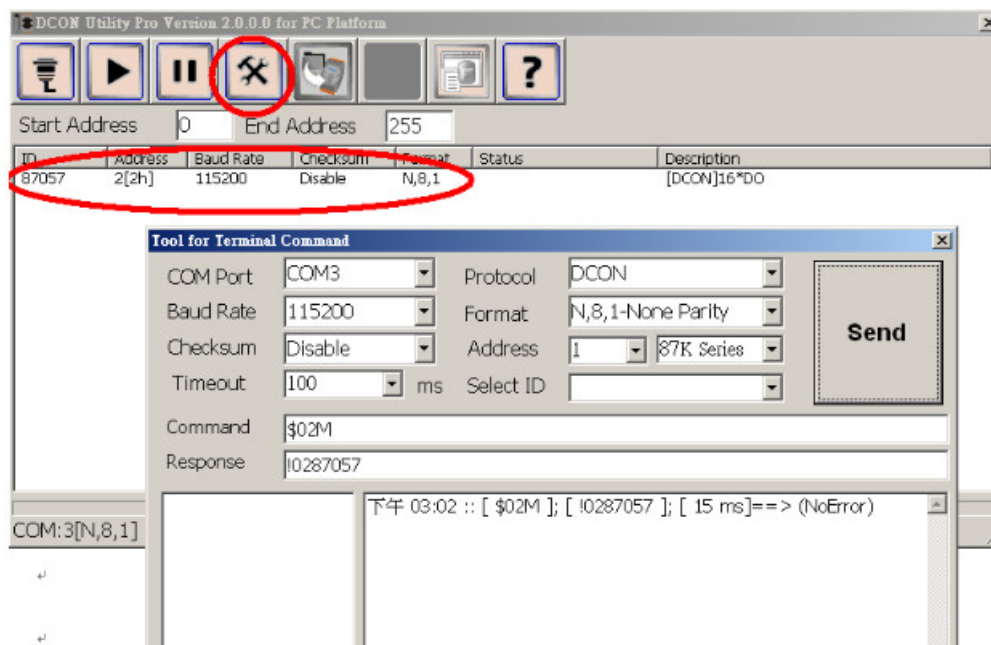
5. DCON utility pro will search for the selected COM port according to the setting previously set. DCON Utility Pro supports DCON and Modbus protocol for all ICPDAS and the other modules.



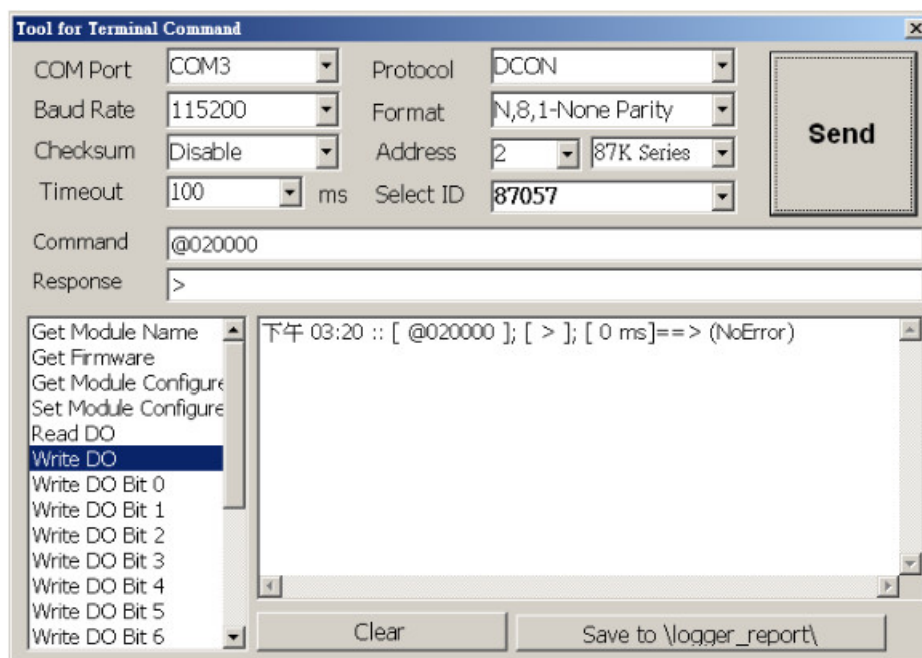
6. Configuration I/O module setting on PC



6. For M-7000 modules using the Modbus RTU protocol, configure the module using the following functions.
- Sub-function 04h of Function 46h, see user manual Section 3.3.2
 - Sub-function 06h of Function 46h, see user manual Section 3.3.4
 - Sub-function 08h of Function 46h, see user manual Section 3.3.6
- For M-7000 modules using the Modbus RTU protocol, use Function 04h to read the data from the input channels. See user manual Section 3.2 for details.



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



Documents / Resources

	Logicbus M-7017C 8-channel Current Input Data Acquisition Module [pdf] User Guide M-7017C 8-channel Current Input Data Acquisition Module, M-7017C, 8-channel Current Input Data Acquisition Module, Current Input Data Acquisition Module, Input Data Acquisition Module , Data Acquisition Module, Acquisition Module, Module
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References

- [🔗 Data Acquisition \(DAQ\), Embedded Control, and Industrial Communication Products | ICP DAS USA, Inc.](#)
- [🔗 DCON Utility Pro | DCON Utility Pro is a toolkit that can help easily search, configure and test I/O modules. It is installable on all Windows version from Windows 98 to Windows 8.1](#)
- [🔗 M-7017C | 8 Channel Current Input, Analog Input Data Acquisition Module, communicable over Modbus RTU and RS-485 Current Input Version. Supports operating temperatures between -25 to 75Â°C.](#)