M-2217CI
M-2217CI-4

8 / 4-ch Channel to Channel Isolation

Differential Analog Input Module

User Manual



M-2217CI



M-2217CI-4

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Edited by Jerry Tseng

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1. Introduction

M-2217CI-4/M-2217CI is a 4/8-channel analog input module with channel-to-channel isolation. All analog input channels can be individually configured with input ranges including ±1 V, ±2.5 V, ±5 V, ±10 V, 0-20 mA, 4-20 mA, and ±20 mA. The module can be set as voltage or current inputs via the software and provides up to 120 VDC overvoltage protections, as well as 50 mA overcurrent protection at 110 VDC/ VAC. Additionally, each 4-20 mA input channel features open wire detection. The sampling rate of M-2217CI-4/M-2217CI can be set to either fast mode (200 Hz) or normal mode (10 Hz) for recording voltage and current values with timestamps. It also provides EMS (EFT/ESD/Surge) protection and 3000 VDC I/O isolation to enhance noise protection capabilities in industrial environments.

Features

- **Software Configurable Voltage/Current Input**
- **Adjustable Sampling Rate (200Hz/10Hz per channel)**
- **Records with Time Stamps for Voltage and Current Measurements**

  M-2217CI-4: 480,000 records/each channel

  M-2217CI: 320,000 records/each channel
- **Built-in I/O**

  M-2217CI-4: 4-ch AI (Differential)

  M-2217CI: 8-ch AI (Differential)
- **3000 VDC Channel-to-channel Isolation**

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2. Hardware

2.1 System Specifications

Module	M-2217CI-4	M-2217CI
CPU Module		
CPU	32-bit ARM	
Watchdog Timer	Module, Communication(Programmable)	
Isolation		
Intra-module Isolation	3750 VDC	
EMS Protection		
EFT (IEC 61000-4-4)	±4 kV for Power Line	
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal ±8 kV Air for Random Point	
Surge (IEC 61000-4-5)	±2 kV for Power Line	
LED Indicators		
Status	1 x Power and Communication	
COM Ports		
Ports	1 x RS-485	
Baud Rate	1200 ~ 115200 bps	
Data Format	(N, 8, 1) (N, 8, 2) (E, 8, 1) (O, 8, 1)	
Protocol	Modbus RTU, DCON	
Bias Resistor	10 KΩ	
Power		
Reverse Polarity Protection	Yes	
Input Range	+10 ~ +48 VDC	
Consumption	2.8 W (Max.)	4.8 W (Max.)
Mechanical		
Dimensions (mm)	33 x 184 x 129 (W x L x H)	
Installation	DIN-Rail mounting	
Environment		
Operating Temperature	-25 ~ +75 ℃	
Storage Temperature	-30 ~ +80 ℃	
Humidity	10 ~ 90% RH, Non-condensing	

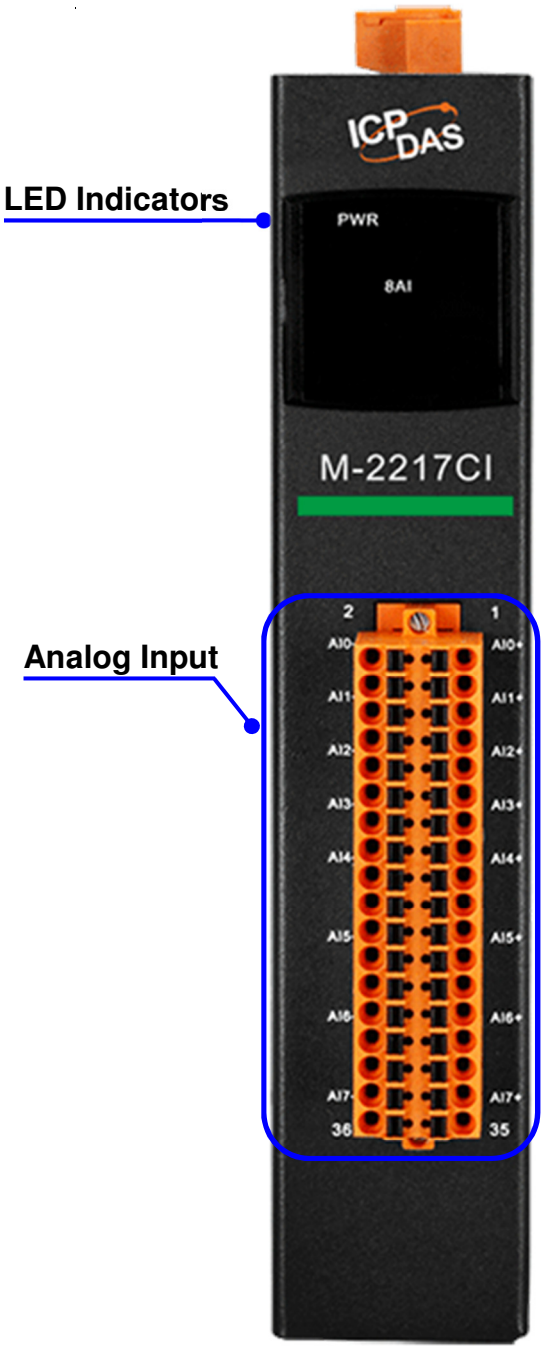
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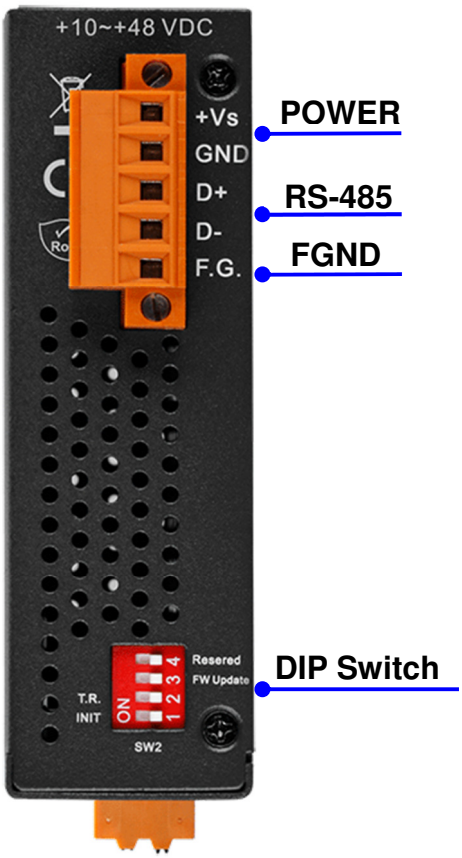
2.2 I/O Specifications

Module		M-2217CI-4	M-2217CI
Analog Input			
Channels		4 Differential	8 Differential
Type		Voltage, Current (Software Configurable)	
Range	Voltage	±1 V, ±2.5 V, ±5 V, ±10 V	
	Current	0 ~20 mA, 4 ~ 20 mA, ±20 mA	
Resolution		16-bit	
Accuracy		±0.1% of FSR	
Sampling Rate	Normal Mode	10 Hz (Total)	
	Fast Mode	200 Hz (Total)	
Input Impedance		Voltage: 20 MΩ, Current: 135 Ω	
Overvoltage Protection		120 VDC	
Overcurrent Protection		50 mA at 110 VDC (max.)	
Individual Channel Configuration		Yes	
Channel-to-Channel Isolation		3000 VDC	
Open Wire Detection		For 4 ~ 20 mA only	

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2.3 Appearance





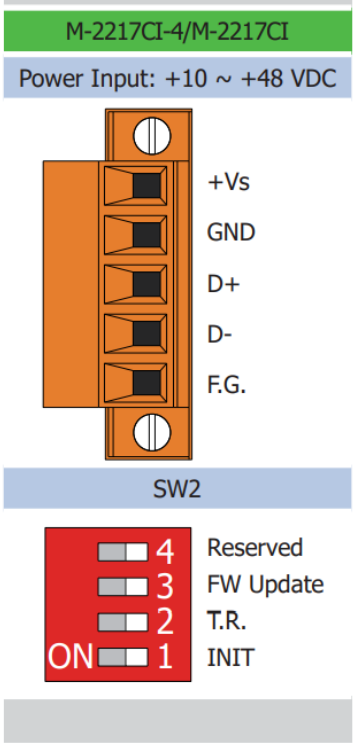
LED Indicator	PWR(red)
Analog Input	M-2217CI-4: 4-ch analog input M-2217CI: 8-ch analog input
POWER	+Vs : +10~+48VDC
RS-485	D+, D-
DIP Switch	SW2

LED Indicator	LED Status	Causes
PWR (Red)	Solid	Normal Operation
	Blink	Waiting for Firmware to update

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2.4 Pin Assignments

Pin Assignment		Terminal No.		Pin Assignment	
M-2217CI-4	M-2217CI			M-2217CI-4	M-2217CI
AI0-	AI0-	02	01	AI0+	AI0+
		04	03		
	AI1-	06	05		AI1+
		08	07		
AI1-	AI2-	10	09	AI1+	AI2+
		12	11		
	AI3-	14	13		AI3+
		16	15		
AI2-	AI4-	18	17	AI2+	AI4+
		20	19		
		22	21		
	AI5-	24	23		AI5+
		26	25		
		28	27		
AI3-	AI6-	30	29	AI3+	AI6+
		32	31		
		34	33		
	AI7-	36	35		AI7+

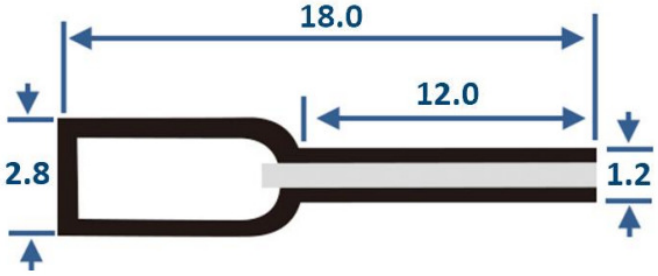


SW2

1	INIT	On for INIT mode
2	T.R.	On to provide 120 ohm terminal resistance on the RS-485 bus
3	FW Update	On to update firmware
4	Reserved	-

2.5 Wiring to the Connector

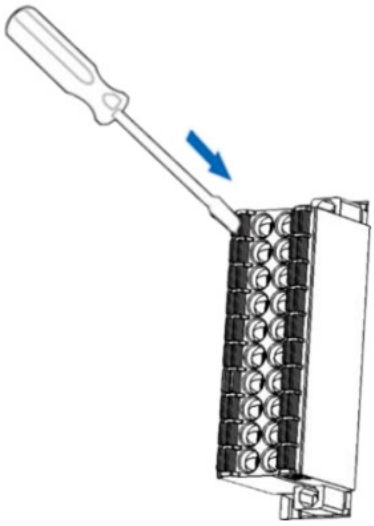
Insulated Terminals Dimensions (Unit: mm):



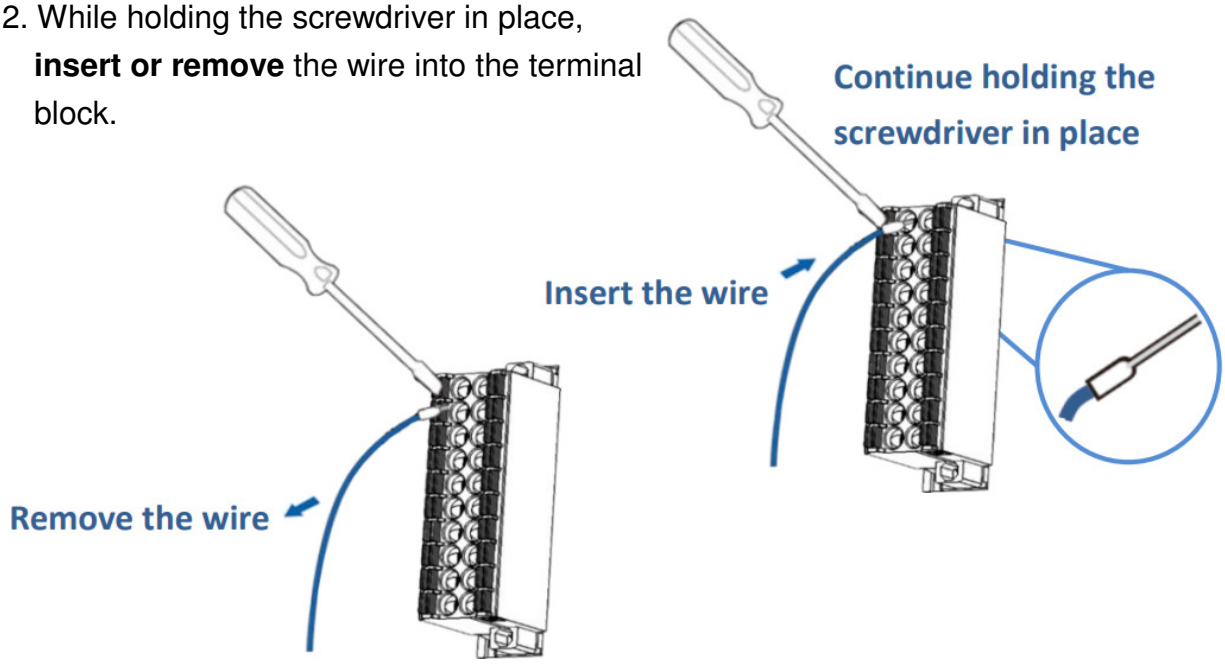
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A tip for connecting or removing the wire to the connector:

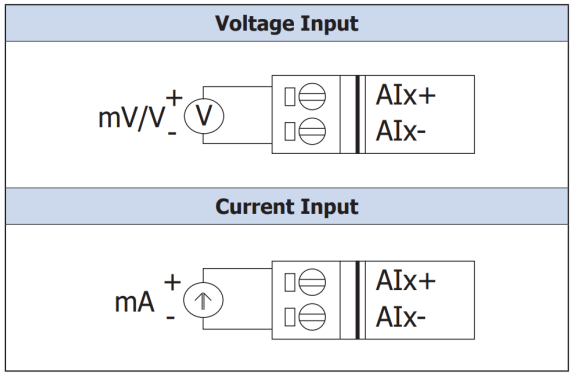
1. Use the blade of the flat-head screwdriver to push down the wire clamp.



2. While holding the screwdriver in place, **insert or remove** the wire into the terminal block.

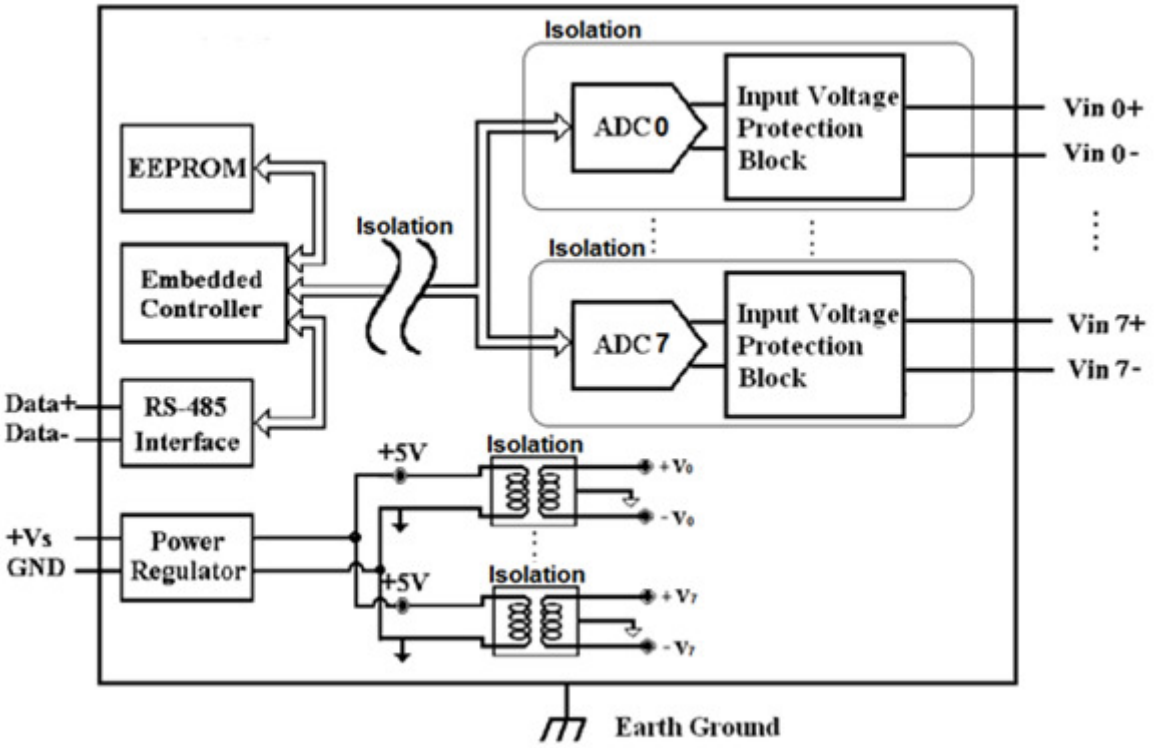


2.6 Wire Connection

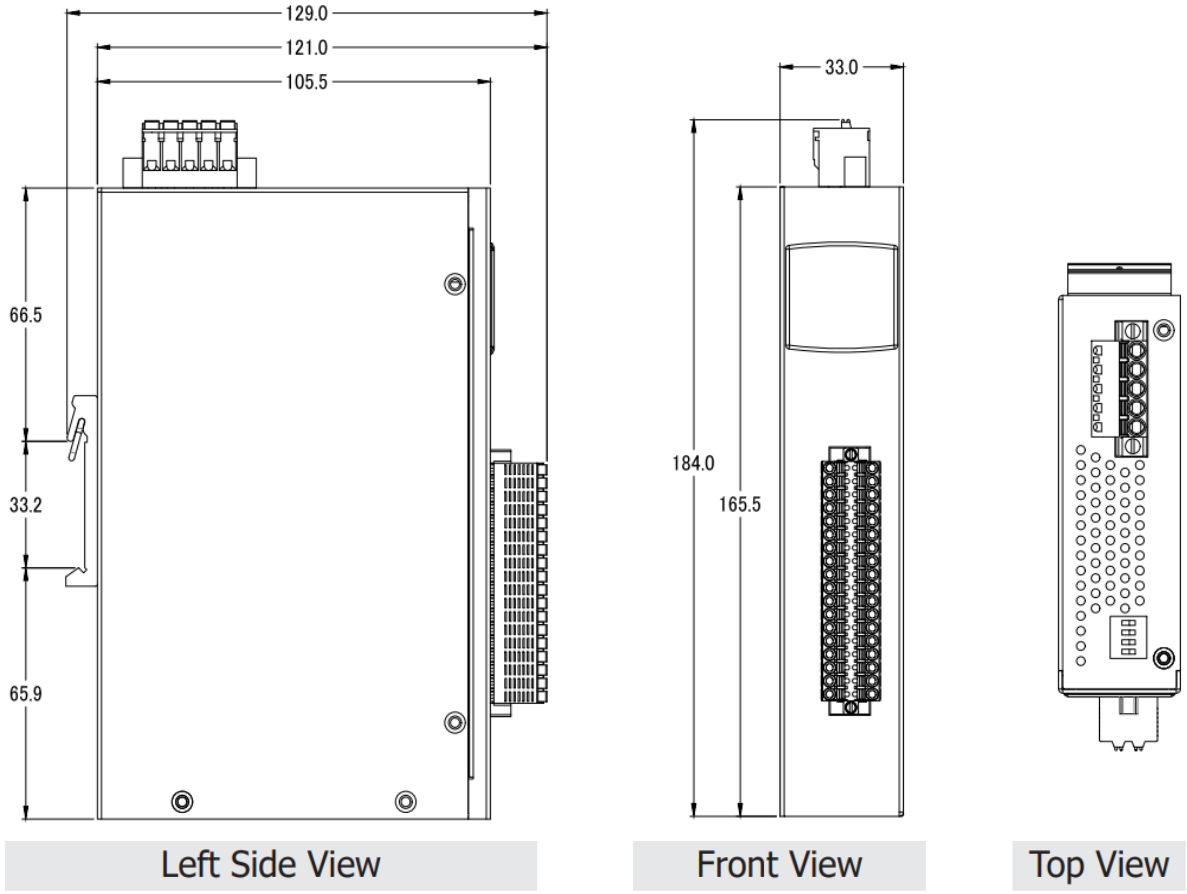


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2.7 Internal I/O Structure

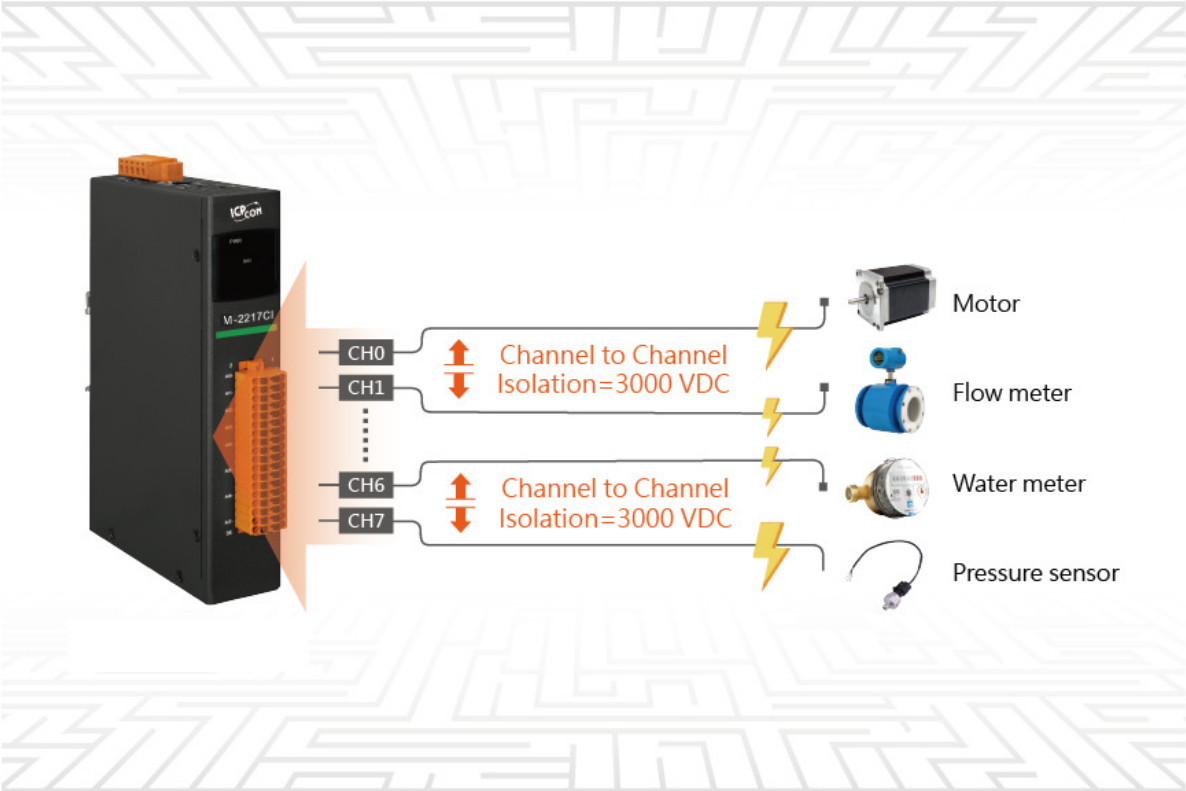


2.8 Dimensions (unit: mm)



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2.9 Application



3. Configuration via RS-485

- The factory default settings for RS-485 communication
  - Address: 1
  - Protocol: Modbus/RTU
  - Baudrate: 9600
  - Parity: N,8,1
  - Response Delay (ms): 0

Note

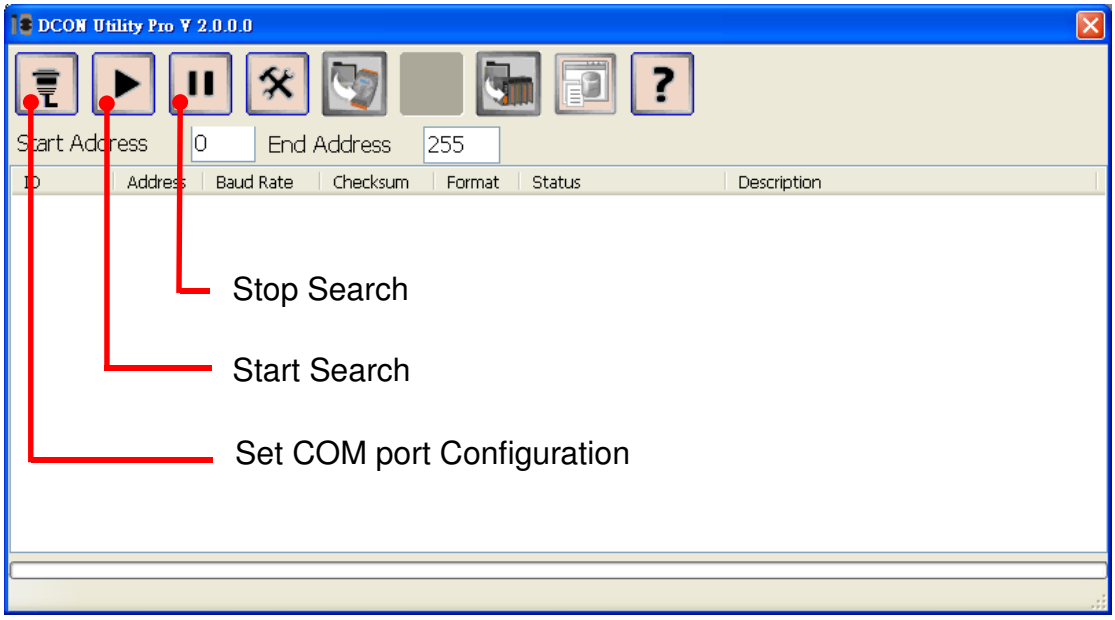
If there are multiple M-2217CI-4 / M-2217CI connected to the same RS-485 network, each module needs be set with a unique RS-485 address. More than one module having the same address will cause communication failure

- Testing RS-485 Communication

  1. Download the DCON Utility Pro from
     https://www.icpdas.com/en/product/guide+Software+Utility_Driver+DCON_Utility_Pro

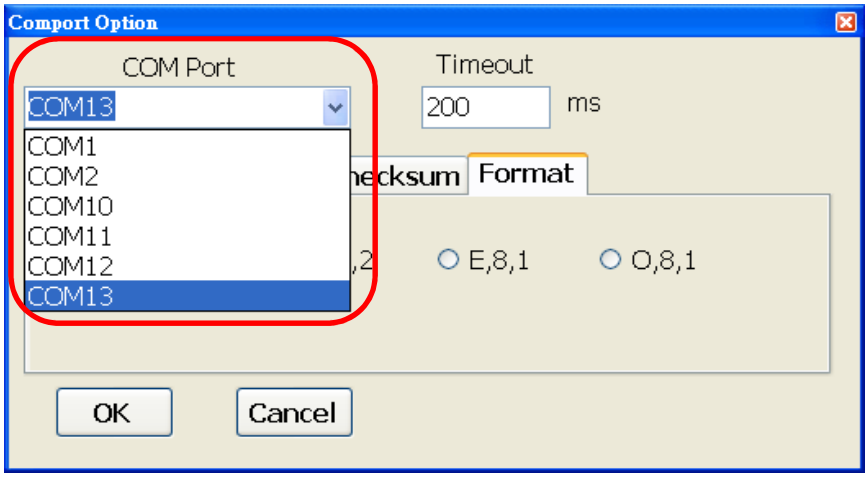
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2. Launch the DCON_Utility_Pro.exe.



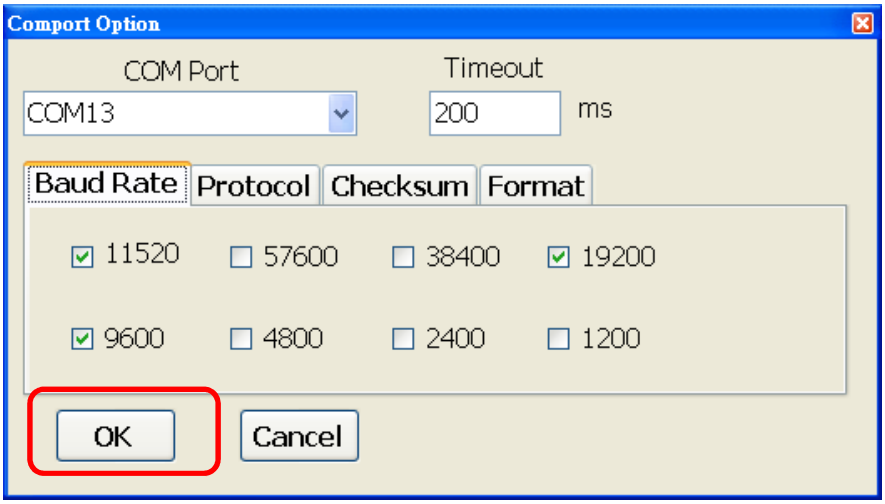
3. Click the icon  to configure the COM port.

4. Select the COM Port number used to connect the M-2217CI-4 / M-2217CI logger.

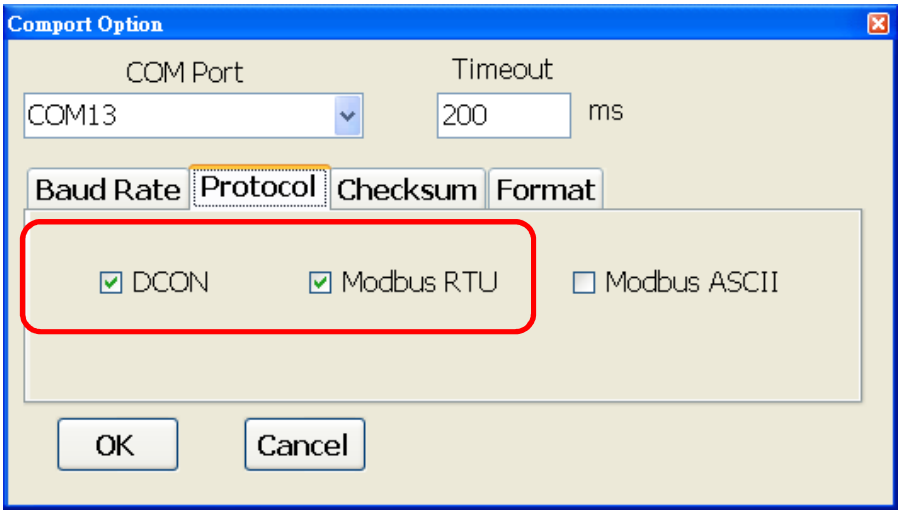


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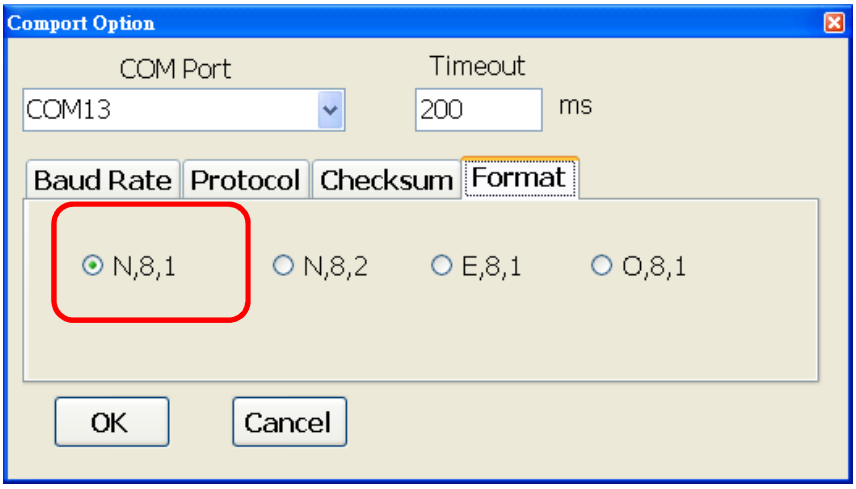
5. The Baud Rate is factory default to 9600 bps.



6. Select the Protocol tab.



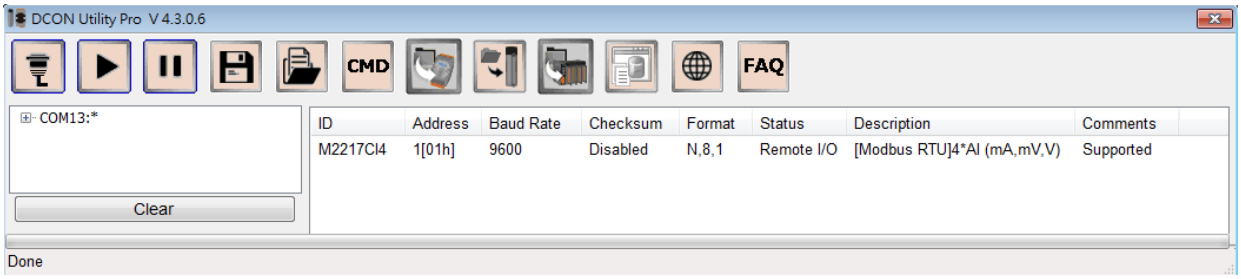
7. Select the Format tab and check the parity that set in the logger.



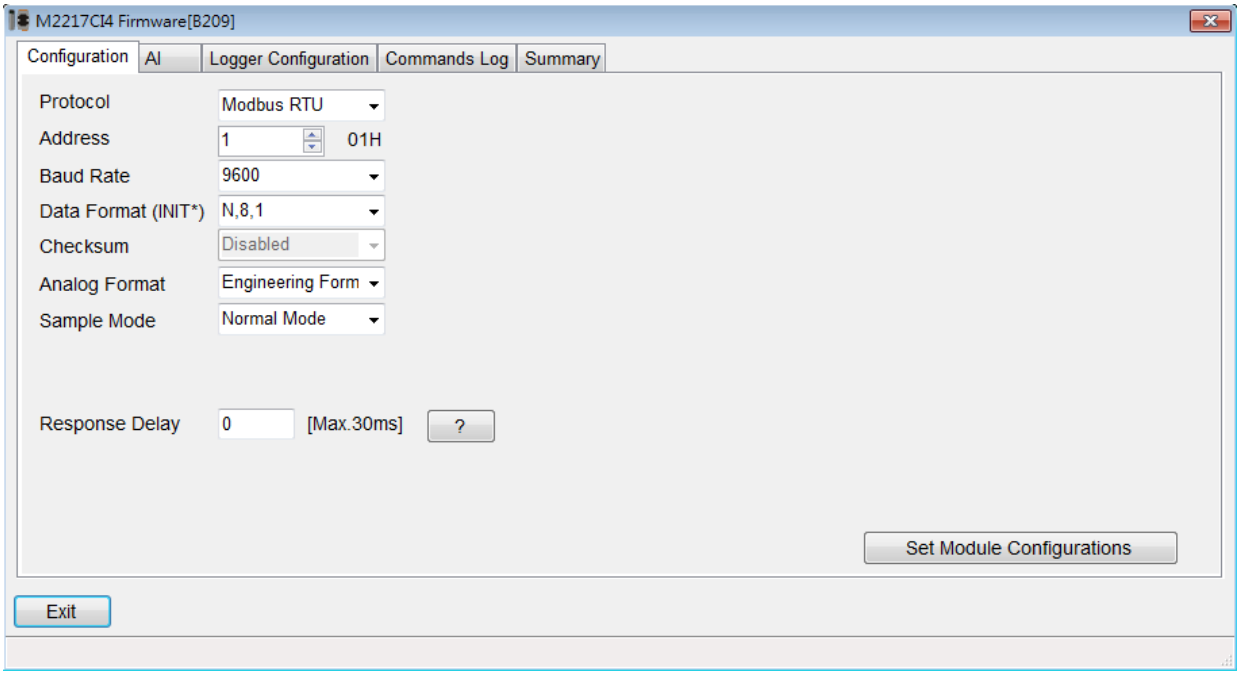
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8. Click the Start Search icon. 

9. The M-2217CI logger searched out will be listed as below.



10. Click the module name to configure the logger.

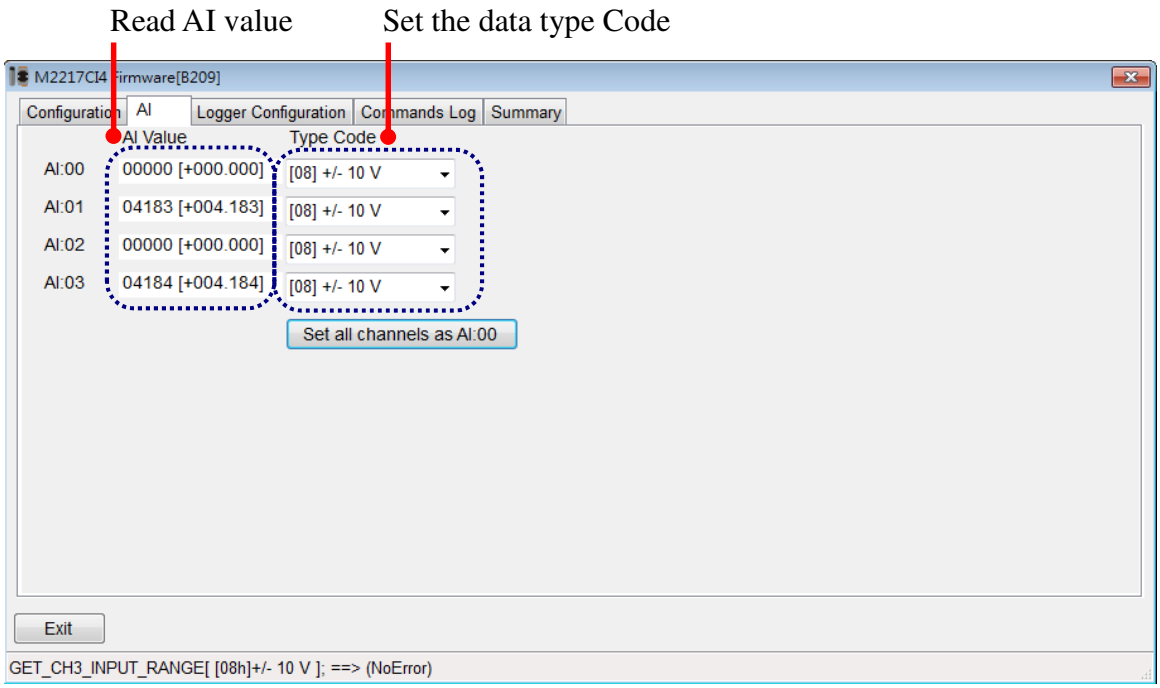


Note

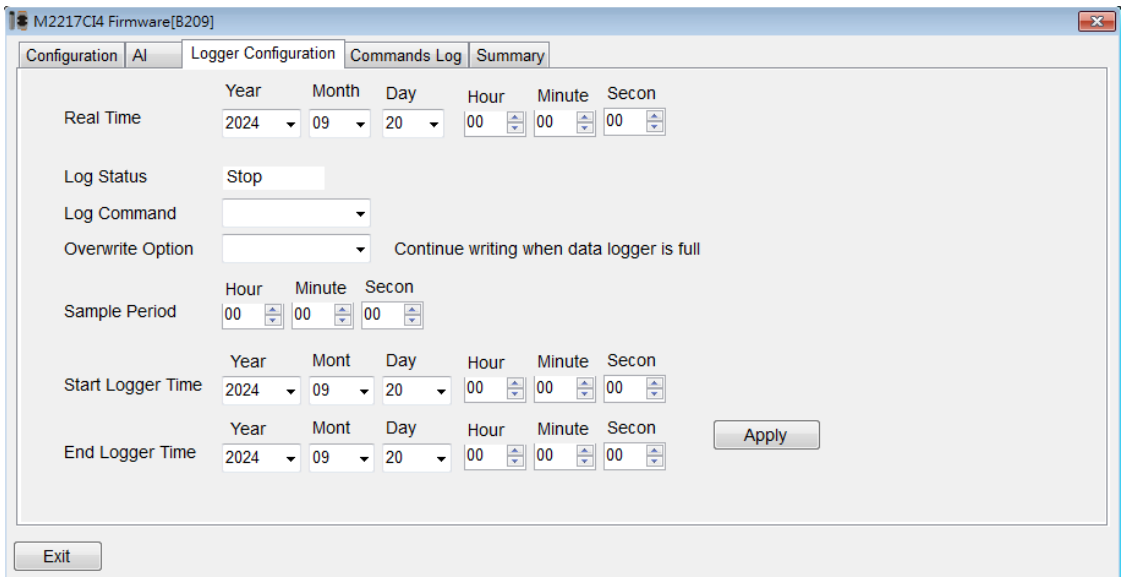
The Protocol/Baud Rate/Parity/Checksum items marked with ”(INIT*)” means that when any of those items needs be modified, the pin 1.INIT needs to be set in ON position and power cycle the logger, then the item can be modified. After complete setting, set the pin 1.INIT back to OFF position and power cycle the logger again to take the setting effect.

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➢ AI tab



➢ AI - Data Logger Configuration



Real Time	Set real time for logging data. (Year/Month/Date/Hour/Minute/Second)
Log Status	Display the current status of data logging
Log Command	Set the status of data logging. It can be set to Stop, Run, Period.
Overwrite Option	Whether to overwrite data when it is full. It can be set to Yes or No
Sample Period	The time interval for logging data. (Hour/Minute/Second)
Start Logger Time	The start time for logging data. (Year/Month/Date/Hour/Minute/Second).
End Logger Time	The end time for logging data. (Year/Month/Date/Hour/Minute/Second).

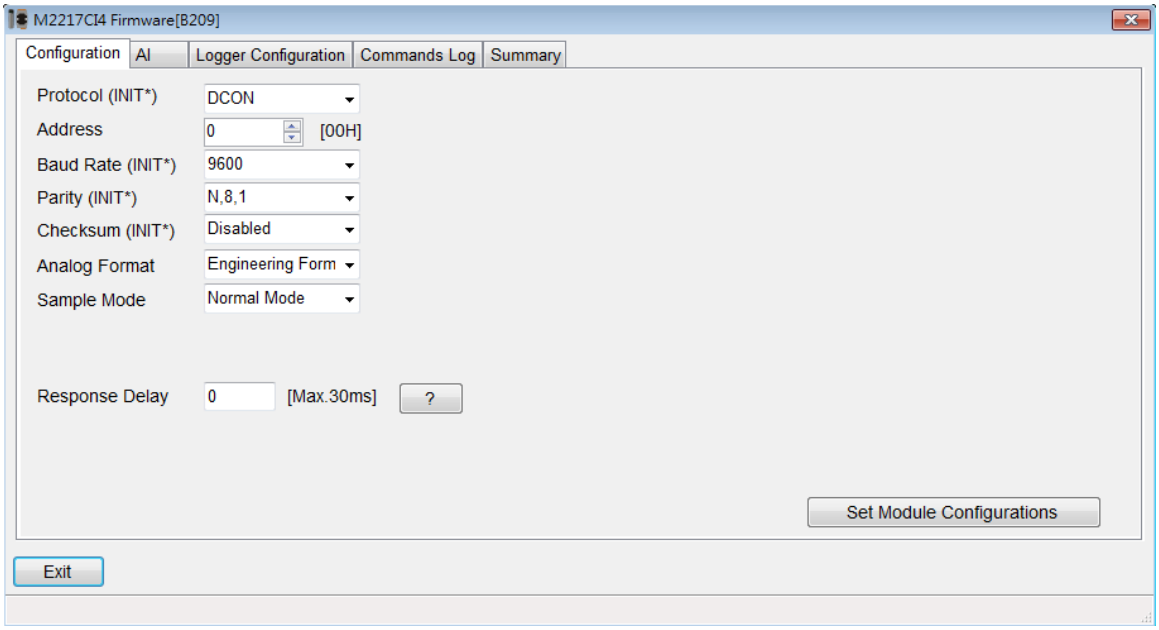
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- INIT



In case of the following situations, users have to set The pin 1.INIT on DIP Switch in the ON position and Power-cycle the M-2217CI / M-2217CI module:

- Change protocol from PC
- Change DCON configuration such as baud rate, parity and checksum
- Communication failure with an M-2217CI-4 / M-2217CI module.



When a M-2217CI-4 / M-2217CI module is powered-on with the pin 1.INIT in ON position, the protocol is DCON, address is 0, Baud Rate is 9600 bps, Parity is set to N/8/1 and Checksum is disabled.

After configuring the communication parameters, click the *Set Module Configurations* button, set the INIT to OFF position and power-cycle the M-2217CI-4 / M-2217CI to take the settings effect.

Note

The INIT switch does not need to be set in the ON position when changing the address, baud rate and parity for ModbusRTU communication; users only have to power-cycle the module after complete configuration.

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Appendix A: DCON Command Sets

A-1. M-2217CI-4 / M-2217CI DCON Command Sets

Command	Description
$AAB	Read the under range status of each channel for 4 to 20mA and 0 to 20mA ranges
$AAF	Read firmware version
$AAI	Read INIT status response: !AA0 -> INIT short to GND !AA1 -> else
$AAM	read module name
$AAP	Read Modbus RTU/DCON protocol response: !AA10 -> DCON !AA11 -> Modbus RTU
$AAPN	Set Modbus RTU/DCON protocol N-> 0: DCON, 1: Modbus RTU
$AAS1	Reload factory calibration parameters
$AA0	Span calibration
$AA0Ci	M-2217CI-4: Channel i span calibration for current input, i = 0 to 3 in hex format
	M-2217CI: Channel i span calibration for current input, i = 0 to 7 in hex format
$AA1	Zero calibration
$AA2	Read configuration
$AA5	Read reset status !AA1 first after power on, !AA0 others
$AA7CiRrr	Set the channel type code
$AA8Ci	Read the channel type code
#AA	M-2217CI-4: Read All Analog Inputs response >(channel 0 data) (channel 1 data)... (channel 3 data)
	M-2217CI: Read All Analog Inputs

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	response >(channel 0 data) (channel 1 data)... (channel 7 data)
Command	**Description**
#AAN	M-2217CI-4: Read Channel Analog Input N = 0 to 3 in hex format
	M-2217CI: Read Channel Analog Input N = 0 to 7 in hex format
%AANNTTCCFF	set configuration, NN: new address, TT = 00, CC: new baud rate FF: data format
@AACH	Clear all high latched analog inputs to the current values
@AACHN	M-2217CI-4: Clear channel high latched analog input to the current value, N = 0 to 3 in hex format
	M-2217CI: Clear channel high latched analog input to the current value, N = 0 to 7 in hex format
@AACL	Clear all low latched analog inputs to the current values
@AACLN	M-2217CI-4 Clear channel low latched analog input to the current value, N = 0 to 3 in hex format
	M-2217CI: Clear channel low latched analog input to the current value, N = 0 to 7 in hex format
@AADLB	Read the beginning of the period setting of the data logger for period logging mode response !AAyyyymmddhhmmss,
@AADLByyyymmddhhmmss	Set the beginning of the period setting of the data logger for period logging mode yyyy: year, 2000 to 2199, mm: month, 01 to 12, dd: date, 01 to 31, hh: hour, 0 to 24, mm: minute, 0 to 59, ss: second, 0 to 59
@AADLC	Read the data logger command response !AAh, 0: stop, 1: run, 2: run in period mode
@AADLCh	Set the data logger command, h->0: stop, 1: run, 2: run in period mode

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Command	Description
@AADLE	Read the ending of the period setting of the data logger for period logging mode response !AAyyyymmddhhmmss
@AADLEyyyymmddhhmmss	Set the ending of the period setting of the data logger for period logging mode yyyy: year, 2000 to 2199, mm: month, 01 to 12, dd: date, 01 to 31, hh: hour, 0 to 24, mm: minute, 0 to 59, ss: second, 0 to 59
@AADLF	Read the index of the first record of the current log response !AAhhhhhhhh, hhhhhhhh in hex format
@AADLI	Read the index of the log record to be read response !AAhhhhhhhh, hhhhhhhh in hex format
@AADLIhhhhhhhh	Set the index of the log record to be read response !AA
@AADLN	Read the index of the last log record response !AAhhhhhhhh, hhhhhhhh in hex format
@AADLO	Read the overwriting mode when data logger is full response !AAh, 0: stop logging when full, 1: overwrite
@AADLOh	Set the overwriting mode when data logger is full h->0: stop logging when full, 1: overwrite
@AADLP	Read the sampling period setting of the data logger response !AAsssssmmm, sssss: second, 0 to 65535, mmm: millisecond, 0 to 995
@AADLPssssssmmm	Set the sampling period setting of the data logger. The millisecond should be multiple of 5.
@AADLS	Read logging status of the data logger response !AAhh, hh in hex format, 00: stopped, 01: running, others: error
@AAET	Read the RTC time in Epoch format response !AAhhhhhhhh, hhhhhhhh in Epoch and hex format
@AAEThhhhhhhh	Set the RTC time in Epoch format

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Command	Description
@AARH	Read all high latched values of analog input channels
@AARHN	Read channel high latched value of analog input
@AARL	Read all low latched values of analog input channels
@AARLN	Read channel low latched value of analog input
@AART	Read RTC data response !AAYYYYMMDDHHMMSS
@AARTYYYYMMDDHHMMSS	Set RTC data
~**	clear host watchdog timeout counter
~AA0	read host watchdog status
~AA1	clear host watchdog timeout status
~AA2	read host watchdog enable/disable status and timeout value
~AA3ETT	enable/disable host watchdog and set timeout value E-> 0: disable host watchdog, 1: enable host watchdog TT: host watchdog timeout in 0.1s in hex format
~AAEV	Enable/disable module calibration
~AARD	read response delay time in ms in hex format
~AARDVV	set response delay time in ms, VV in hex format, 00 - 1E

Baud Rate Setting (CC)

Bits 5:0

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 bits

10: even parity, 1 stop bit

11: odd parity, 1 stop bit

Data Format Setting (FF)

Bit 6

0: checksum disabled

1: checksum enabled

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Bit 5

0: normal mode

1: fast mode

Bit 1:0

00: engineering format

01: % of FSR format

10: hex format

Analog Input Type and Data Format Table

Type code	Input Type	Data Format	Max.	Min.
05	-2.5 to +2.5 V	Engineering unit	+25000	-25000
		2's comp HEX	7FFF	8000
06	-20 to +20 mA	Engineering unit	+20000	-20000
		2's comp HEX	7FFF	8000
07	+4 to +20 mA	Engineering unit	+20000	+4000
		2's comp HEX	FFFF	0000
08	-10 to +10 V	Engineering unit	+10000	-10000
		2's comp HEX	7FFF	8000
09	-5 to +5 V	Engineering unit	+5000	-5000
		2's comp HEX	7FFF	8000
0A	-1 to +1 V	Engineering unit	+10000	-10000
		2's comp HEX	7FFF	8000
0D	-20 to +20 mA	Engineering unit	+20000	-20000
		2's comp HEX	7FFF	8000
1A	0 to +20 mA	Engineering unit	+20000	0
		2's comp HEX	FFFF	0000

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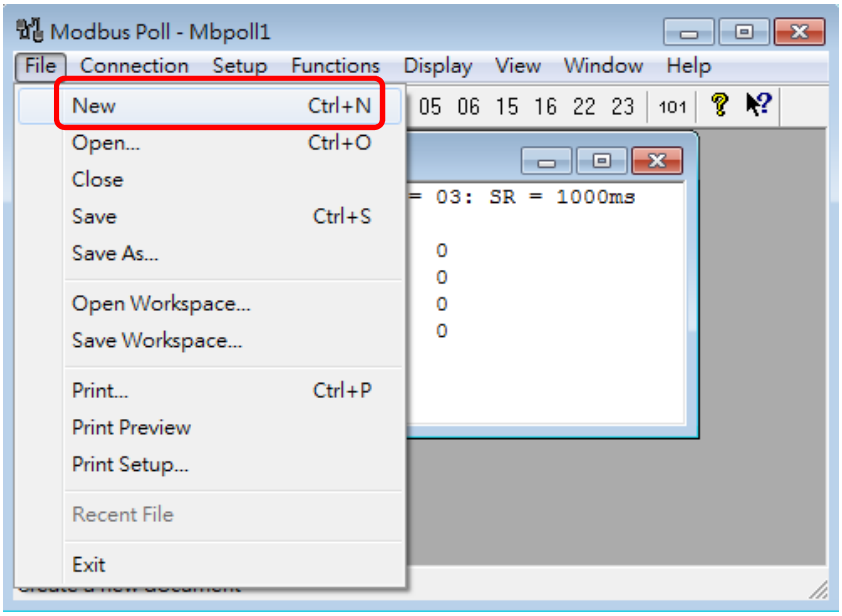
Appendix B: ModbusMasterToolPC

ModbusMasterToolPC is a free, easy-to-use tool for Modbus communication and diagnosing the wiring. It is located in the company CD:

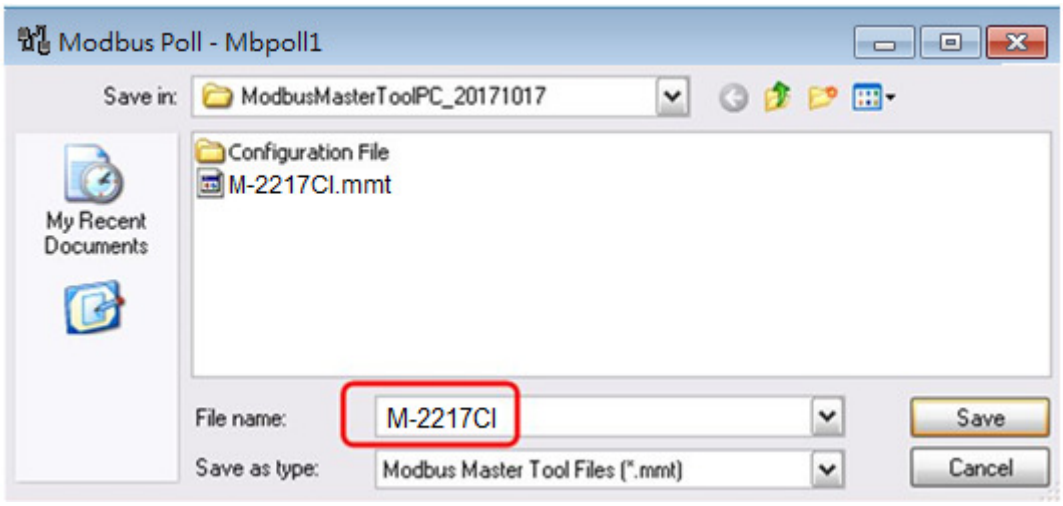
CD:\ Napdos\M-2217CI\utility\ and needless to install

This section intends to guide the steps for creating the Modbus communication with M-2217CI logger.

1. Launch the ModbusMasterToolPC.exe.
2. Select ***New*** in the File menu.

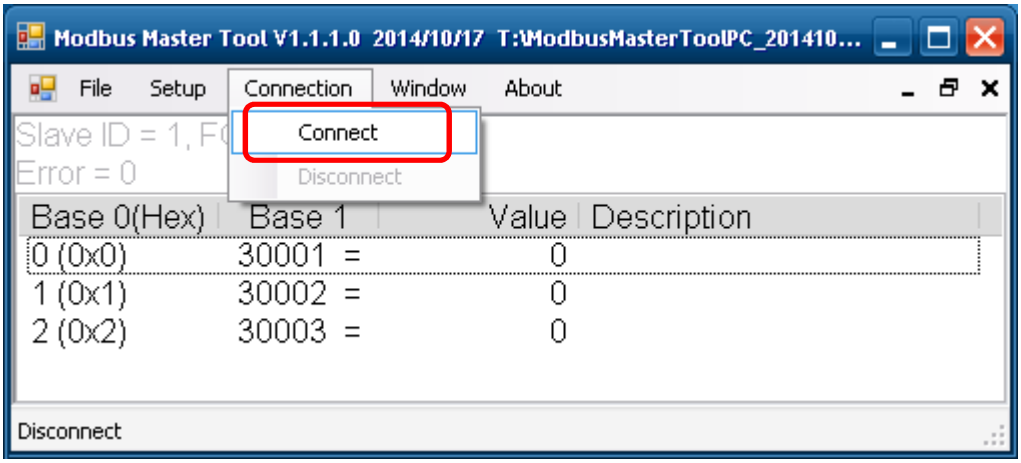


3. Input the file name and click on the ***Save*** button.

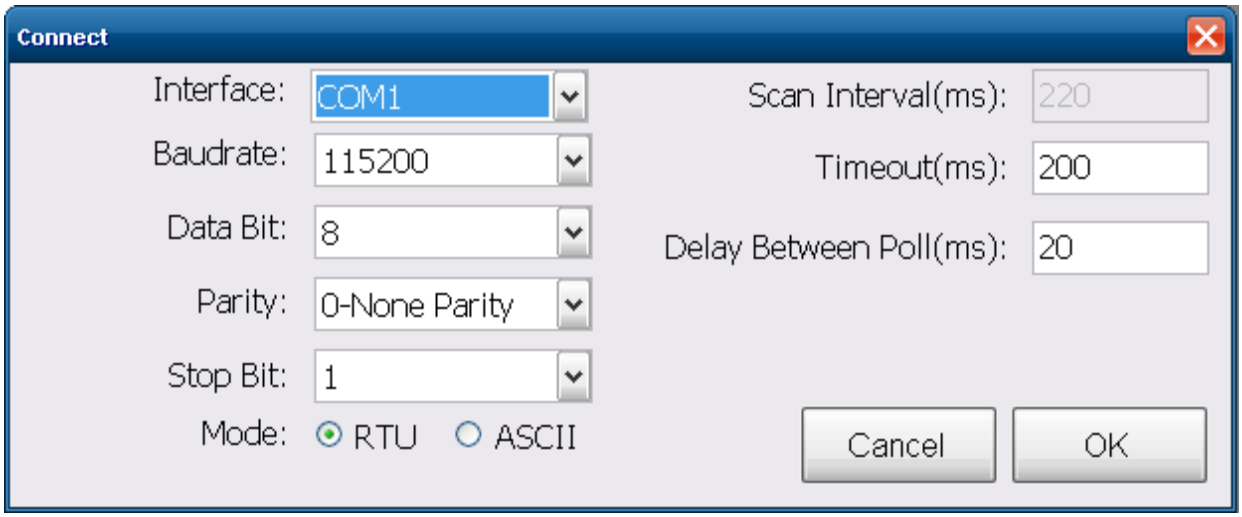


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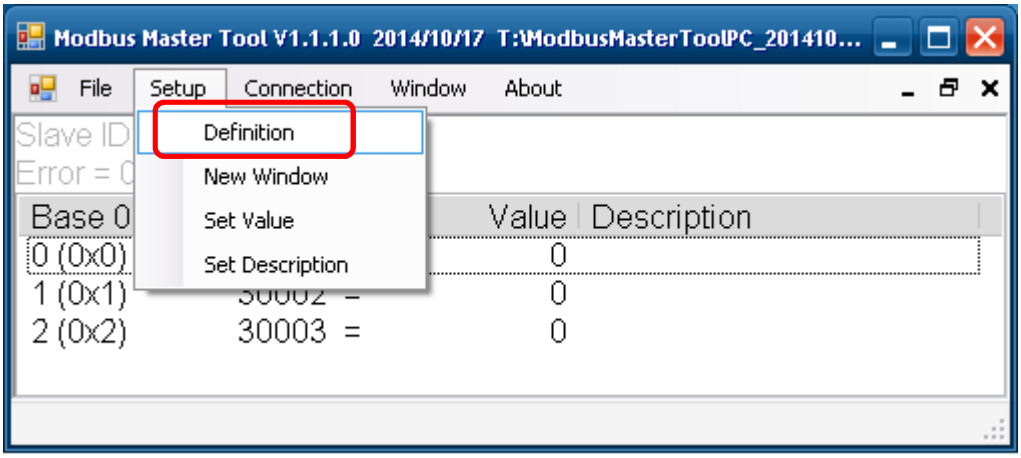
4. Select ***Connect*** in the *Connection* menu.



5. Select the communication interface. When using RS-485 as the interface, select the COM port, check the RTU mode and click on the ***OK*** button.

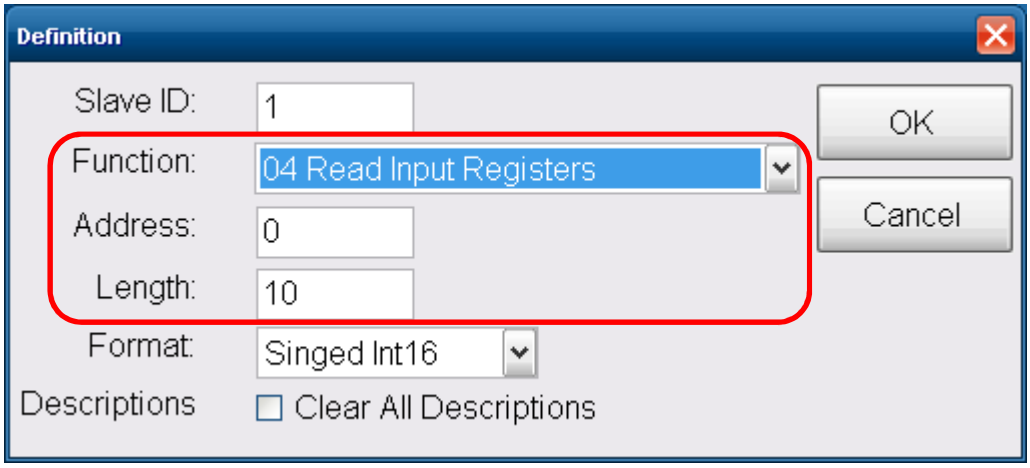


6. Select ***Definition*** in the *Setup* menu.

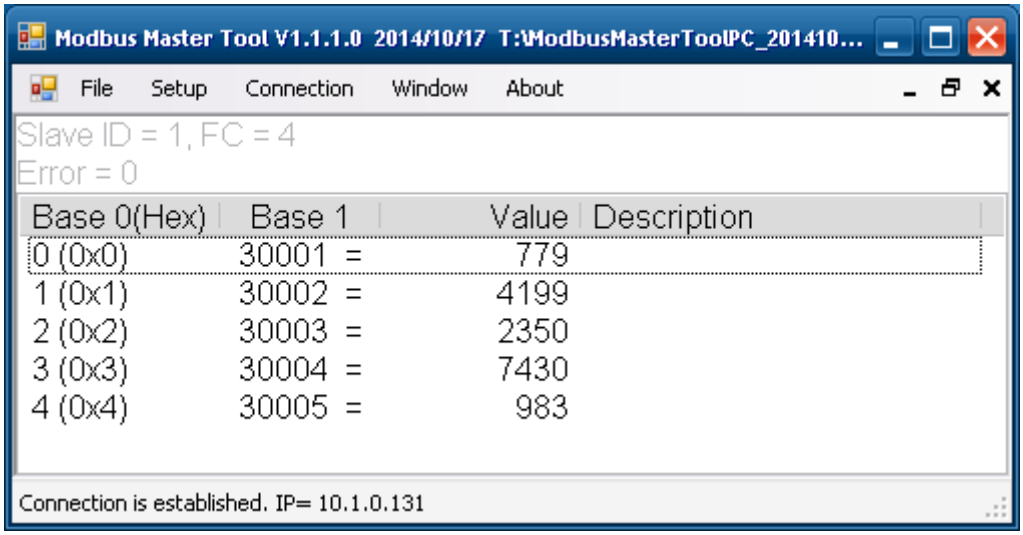


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7. Select the Modbus function code, input the start address and length, and click on the ***OK*** button.



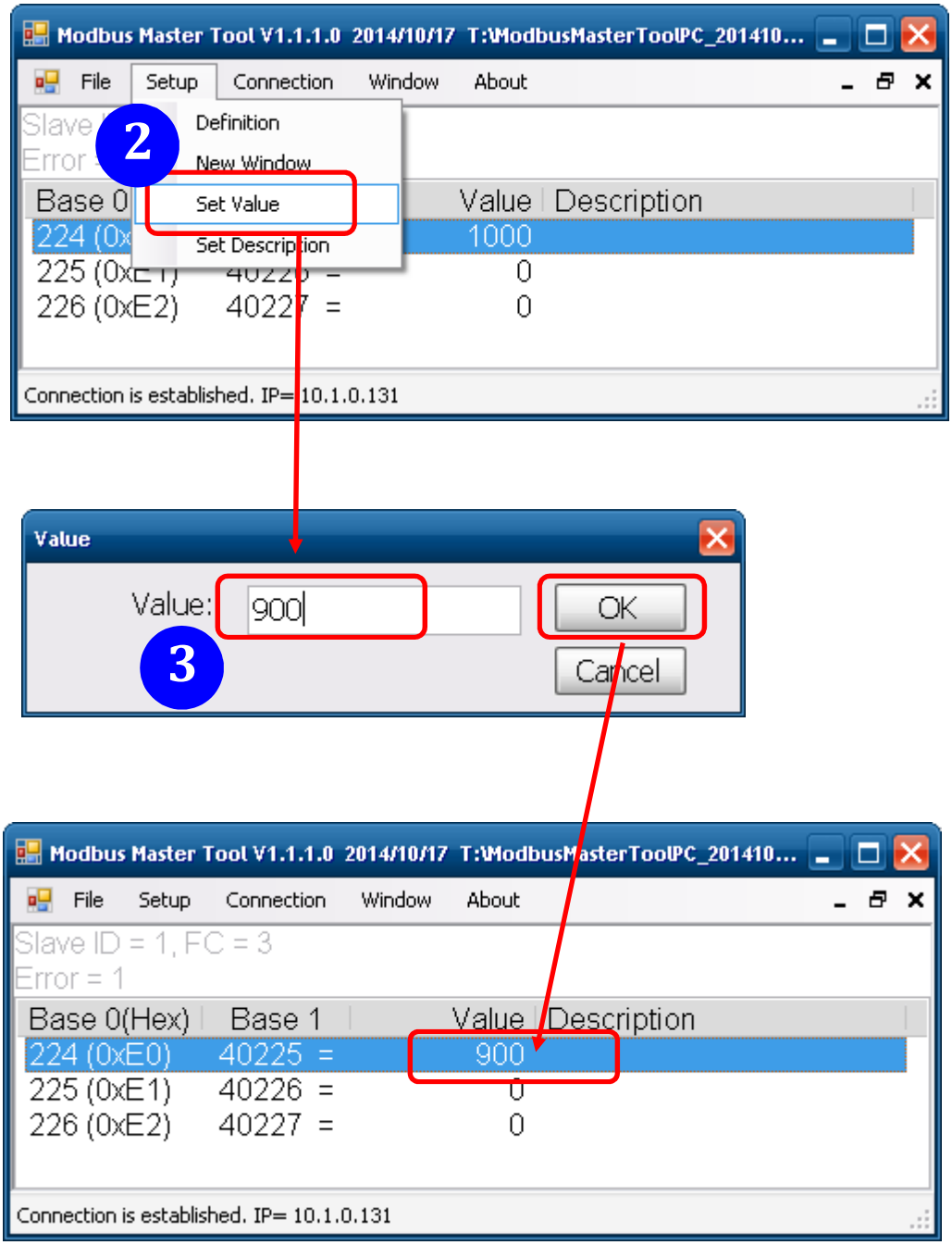
8. Read data.



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9. Write data to Holding Register or Coil Status

1. Highlight the Modbus address in the Holding Register or Coil Status list
2. Select ***Set Value*** in the *Setup* menu.
3. Input the data in the Value box and click on the ***OK*** button



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Appendix C: Modbus Address Table

C-1. M-2217CI-4 / M-2217CI Modbus Address Mappings (Base 1)

Address	Description	Attribute
30001 ~ 30004 40001 ~ 40004	M-2217CI-4: Analog input value of channel 0 to 3	R
30001 ~ 30008 40001 ~ 40008	M-2217CI: Analog input value of channel 0 to 7	R
40257 ~ 40260	M-2217CI-4: Type code of channel 0 to 3	R/W
40257 ~ 40264	M-2217CI: Type code of channel 0 to 7	R/W
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	RS-485 module address, 1 to 247	R/W
40486	RS-485 baud rate and parity settings Bits 5:0 Baud rate, valid range: 3 ~ 10 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	R/W
40488	RS-485 response delay time in ms, valid range, 0 ~ 30	R/W
40489	RS-485 host watchdog timeout value, 0 ~ 255, in 0.1s	R/W
40492	RS-485 host watchdog timeout count, write 0 to clear	R/W
30513 ~ 30516 40513 ~ 40516	M-2217CI-4: High latched analog input value of channel 0 to 3	R

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Address	Description	Attribute
30513 ~ 30520 40513 ~ 40520	M-2217CI: High latched analog input value of channel 0 to 7	R
30545 ~ 30548 40545 ~ 40548	M-2217CI-4: Low latched analog input value of channel 0 to 3	R
30545 ~ 30552 40545 ~ 40552	M-2217CI: Low latched analog input value of channel 0 to 7	R
40865	RTC year, 2000 to 2159	R/W
40866	RTC month, 1 to 12	R/W
40867	RTC date, 1 to 31	R/W
40868	RTC hour, 0 to 23	R/W
40869	RTC minute, 0 to 59	R/W
40870	RTC second, 0 to 59	R/W
40871 ~ 40872	The index of the last log record	R
40873 ~ 40874	The index of the log record to be read	R/W
40875	The status of the data logging, 0: stopped, 1: running	R
40876	The data logger command, 0: stop, 1: run in continuous mode, 2: run in period mode	R/W
40877	Continue writing when data logger is full, 0: no, 1: yes	R/W
40879	Data logger sampling period in seconds	R/W
40880	Data logger sampling period in milliseconds, 0 ~ 1000. It should be multiple of 5	R/W
40881	Starting year when logging in period mode, 2000 ~ 2159	R/W
40882	Starting month when logging in period mode, 1 ~ 12	R/W
40883	Starting date when logging in period mode, 1 ~ 31	R/W
40884	Starting hour when logging in period mode, 0 ~ 23	R/W
40885	Starting minute when logging in period mode, 0 ~ 59	R/W
40886	Starting second when logging in period mode, 0 ~ 59	R/W

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Address	Description	Attribute
40887	Ending year when logging in period mode, 2000 ~ 2159	R/W
40888	Ending month when logging in period mode, 1 ~ 12	R/W
40889	Ending date when logging in period mode, 1 ~ 31	R/W
40890	Ending hour when logging in period mode, 0 ~ 23	R/W
40891	Ending minute when logging in period mode, 0 ~ 59	R/W
40892	Ending second when logging in period mode, 0 ~ 59	R/W
40899 ~ 40900	The index of the first record of the current log	R
34097 ~ 34206 44097 ~ 44206	Read log data and it should be multiple of 7 registers. For each 7 registers, they are value of channel 0, ..., value of channel 3, time stamp low word, time stamp high word, and millisecond time stamp. The time stamp is in Epoch time format.	R
10129 ~ 10132 00129 ~ 00132	M-2217CI-4: Over/under range status of channel 0 to 3 for 4 ~ 20mA or 0 ~ 20mA ranges	R
10129 ~ 10136 00129 ~ 00136	M-2217CI: Over/under range status of channel 0 to 7 for 4 ~ 20mA or 0 ~ 20mA ranges	R
00257	RS-485 Protocol, 0: DCON, 1: Modbus RTU	R/W
00261	RS-485 host watchdog mode, 1: enable, 0: disable.	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 Only for Modbus RTU protocol	R/W
00271	0: 10Hz normal mode, 1: 200Hz fast mode	R/W
00272	Write 1 to load factory calibration parameters	W
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R

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Appendix D: Firmware Update

D-1. Steps of updating firmware for M-2217CI-4 / M-2217CI

The M-2217CI-4 / M-2217CI support firmware updating by RS-485 cable. Users can update firmware in their local site without sending module back. The following instruction describes how to update M-2217CI-4 / M-2217CI firmware

Step 1 Download the latest M-2217CI-4 / M-2217CI installation package

The latest installation package adds an executable file for updating the M-2217CI-4 / M-2217CI firmware. Users can find the file on the product page on the ICP DAS web site

Step 2 Switch SW2 into FW Update mode

The switch setting is shown in figure SW2.

The **FW Update** switch **On** to update firmware.

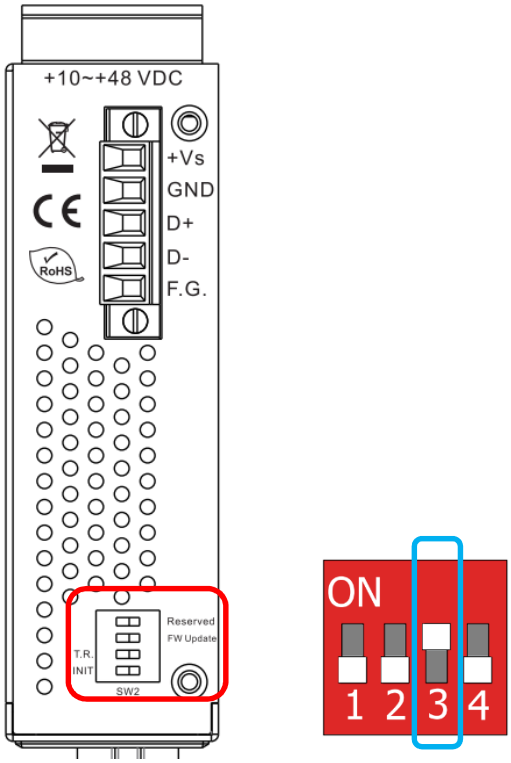


Figure SW2. The hardware setting for enabling firmware update functionality

SW2_3 Status	LED Status	Causes
Off	Solid	Normal Operation
On	Blink	Waiting for Firmware to update

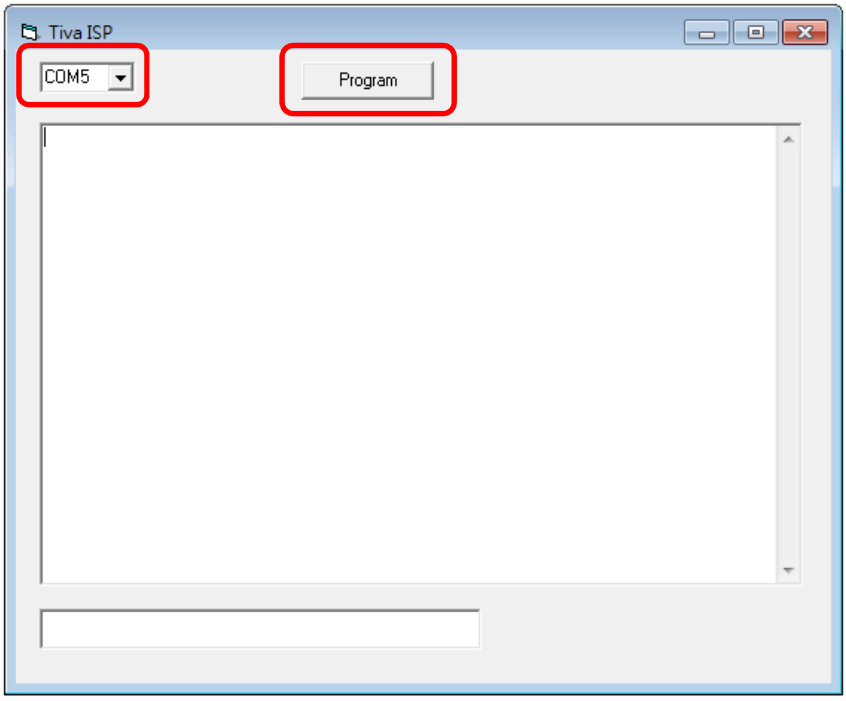
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Step 3 Execute the firmware update software and select firmware

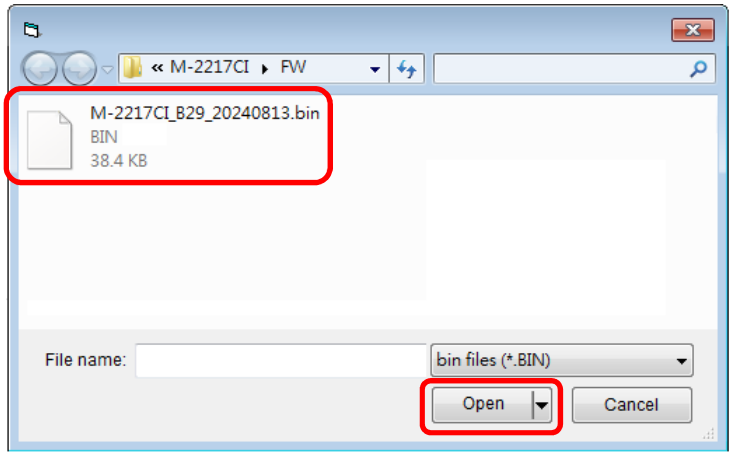
Click RS485-TVAISP, Execute the firmware update software here



Choose **COM** port and users can select the firmware file by clicking the "**Program**" button.



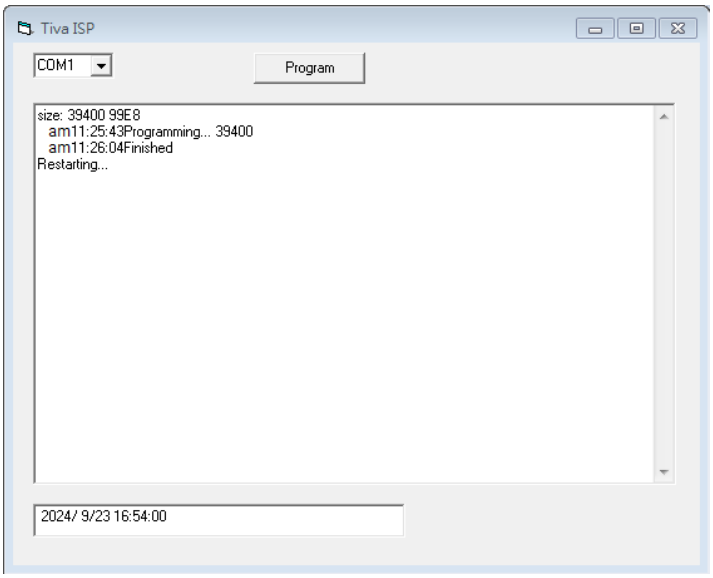
Step 4: Select the firmware file and click on the Open button.

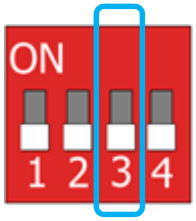


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Step 5: After the update is complete, close the window,

Set the SW2_3 (FW Update) switches to the "OFF" position and reboot the module.





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Revision History

Revision	Date	Description
1.0.0	2024/10	First released

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