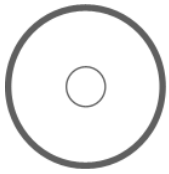
GW-7828 Quick Start

v1.00, January 2020

What's in the box?

In addition to this guide, the package includes the following items:

GW-7828



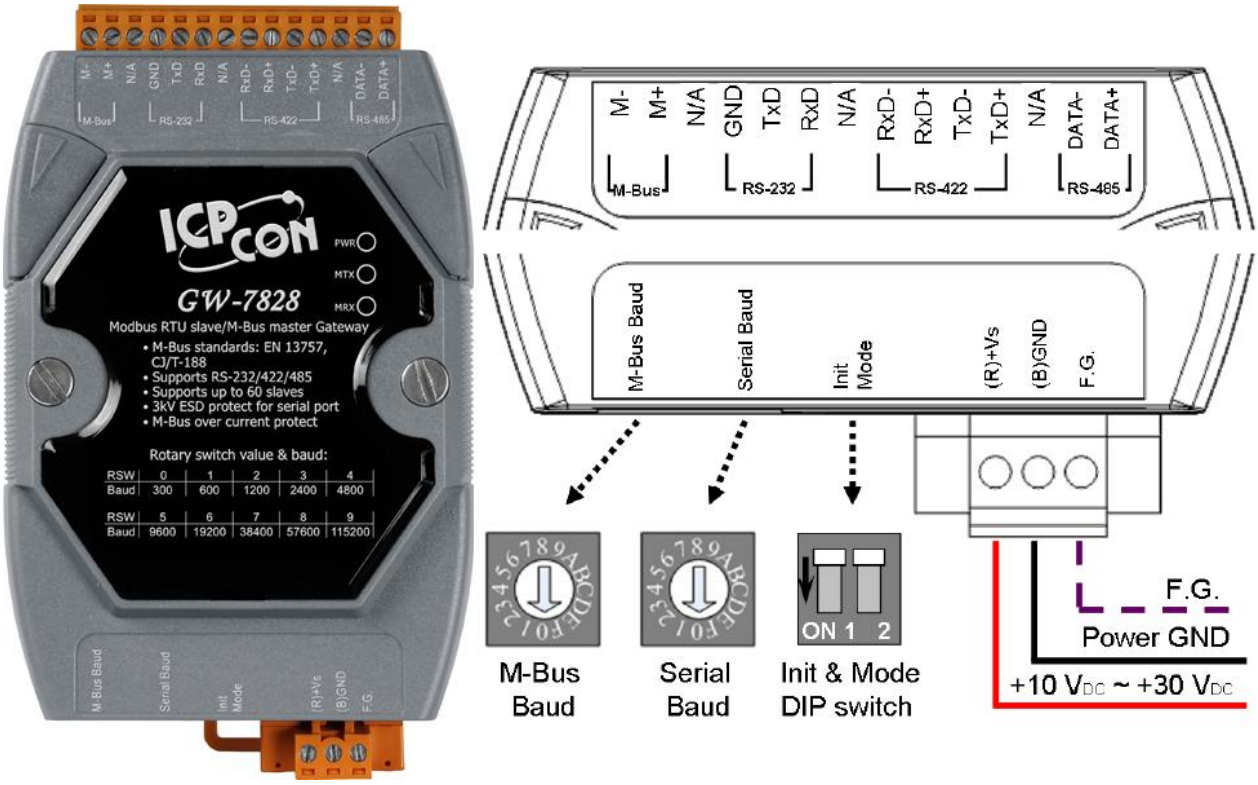
CD

CA-0910

Screw Driver (1C016)

More detail about GW-7828
http://www.icpdas.com/root/product/solutions/industrial_communication/fieldbus/m-bus/converter/gw-7828.html

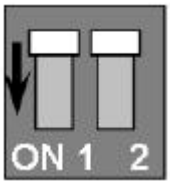
1. Appearance



2. Rotary Switch

	Switch	Baud rate (bps)	Format
	0	300	M-Bus Port:8,e,1 Serial Port:8,n,1
	1	600	
	2	1200	
	3	2400	
	4	4800	
	5	9600	
	6	19200	
	7	38400	
	8	57600	
	9	115200	
	A~F	User defined	User defined

3. DIP Switch

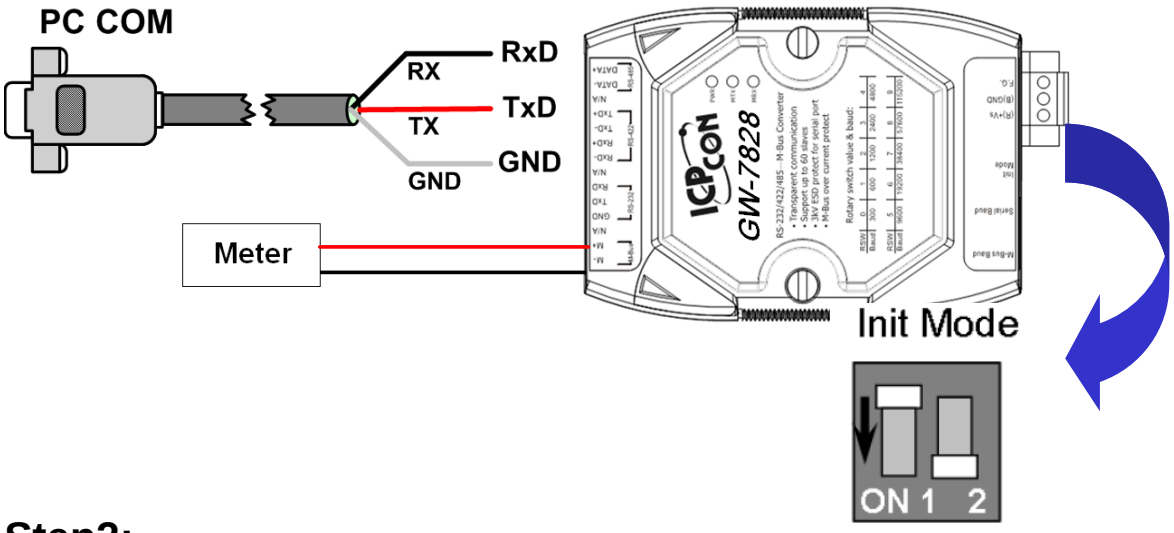
	Init Pin	Mode Pin	Description
	OFF	OFF	Operation Mode
	OFF	ON	Configure Mode
	ON	OFF	Firmware Update Mode
	ON	ON	Reserved

4. Configuration

The GW-7828 utility (MBus Utility) can be downloaded from the website: http://ftp.icpdas.com.tw/pub/cd/fieldbus_cd/mbus/gateway/gw-7828/software/

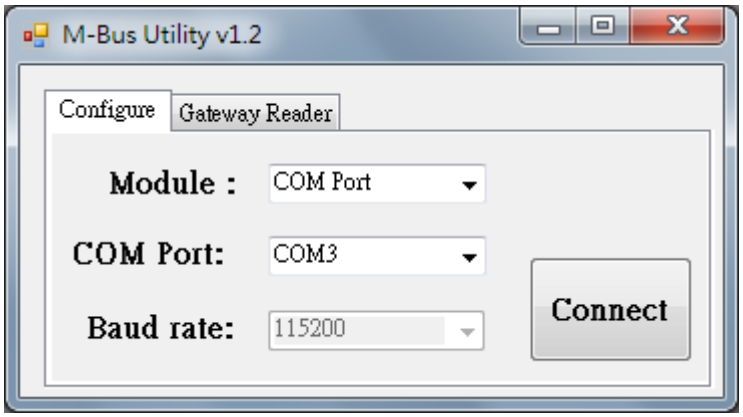
Step1:

Connect the PC COM port to the RS-232 port of the GW-7828 and Meter. Set the DIP switch to the configuration mode (Mode ON) and then power it on.



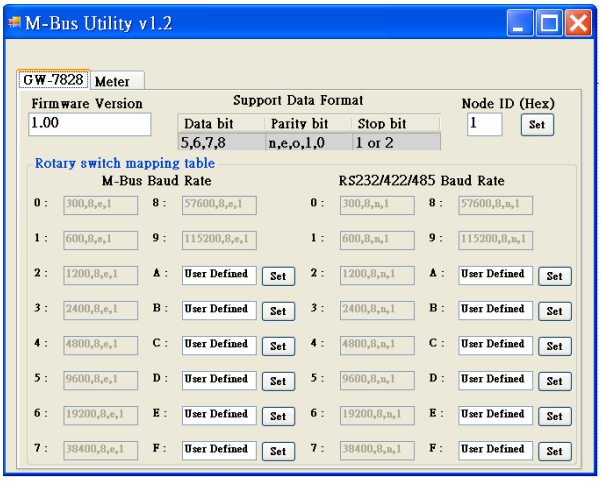
Step2:

Execute the M-Bus utility, and select the correct port number and the Baud rate under the “Configure” tab. Then, click the connect button.

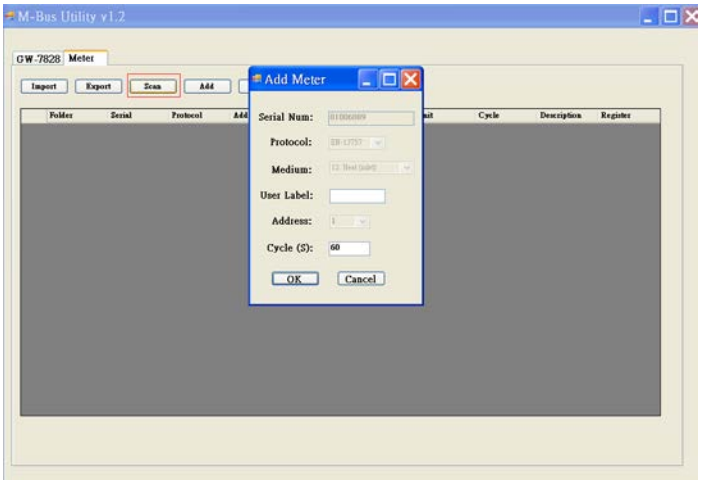


Step3:

Afterwards, the M-Bus utility shows all settings stored in the GW-7828 if it had been configured before. You can refer to the “GW-7828 user’s manual” to configure the M-Bus meter setting according to the kind of meter or to configure the custom baud rate and data format of serial port or M-Bus. After save all the settings, export the configuration file.



Configure baud rate and data format.



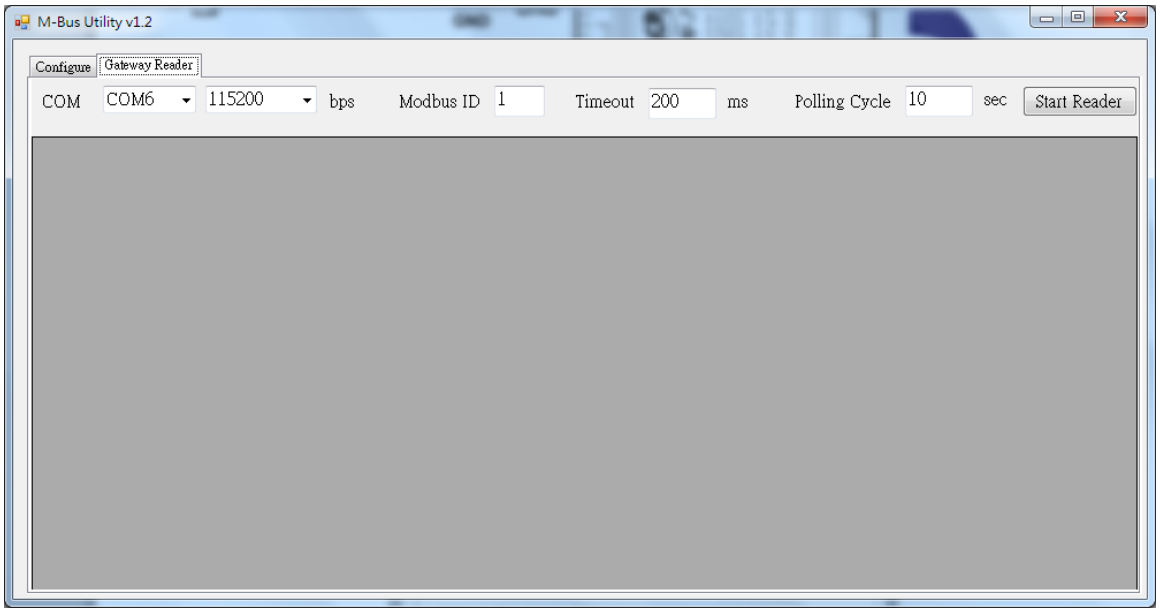
Configure M-Bus meters.

Step4:

After configuration, set the DIP switch to operation mode and reboot the GW-7828.

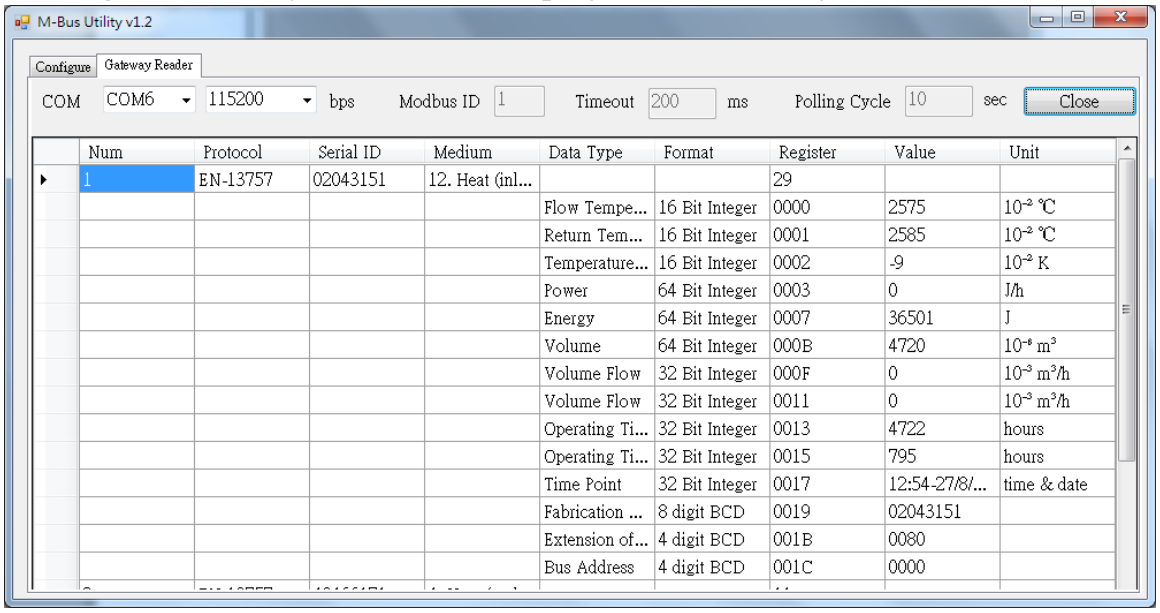
Step5:

Re-execute M-Bus utility and switch to “Gateway Reader” tab.



Step6:

Select the COM Port and timeout related parameters and press “Start Reader” button. To import the configuration file that exported by step 3. Then the utility will read the meter data according to the set cycle time and display it on the utility.



Num	Protocol	Serial ID	Medium	Data Type	Format	Register	Value	Unit
1	EN-13757	02043151	12. Heat (inl...			29		
				Flow Tempe...	16 Bit Integer	0000	2575	10^{-2} ℃
				Return Tem...	16 Bit Integer	0001	2585	10^{-2} ℃
				Temperature...	16 Bit Integer	0002	-9	10^{-2} K
				Power	64 Bit Integer	0003	0	J/h
				Energy	64 Bit Integer	0007	36501	J
				Volume	64 Bit Integer	000B	4720	10^{-6} m^3
				Volume Flow	32 Bit Integer	000F	0	10^{-3} m^3/h
				Volume Flow	32 Bit Integer	0011	0	10^{-3} m^3/h
				Operating Ti...	32 Bit Integer	0013	4722	hours
				Operating Ti...	32 Bit Integer	0015	795	hours
				Time Point	32 Bit Integer	0017	12:54-27/8/...	time & date
				Fabrication ...	8 digit BCD	0019	02043151	
				Extension of...	4 digit BCD	001B	0080	
				Bus Address	4 digit BCD	001C	0000	