

GW-7838-M Quick Start

v1.0, November 2020

What's in the box?

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

GW-7838-M	Plastic Rail	CA-0910	Screw Driver (1C016)
	Resource	Ces	manuals and
Technical Sup	spec inforr	mation on ICP DAS	website.
www.icpdas.com	• For Mob	ile Web	
		PAS (୦ 🍌 🤣
	ModelN	lame	Q
• For Desktop Web	Google		× Q
ICP	PRODUCTS SOLUTION	Revents	× Q

1. Appearance



2. LED Indicator

LED	Name	Description
PWR	Power LED	ON: Power On ,OFF: Power Off
MTX	M-Bus transmit	Flash: M-Bus transmitting
MRX	M-Bus receive	Flash: M-Bus receiving
7-segment LED	IP Address	Ethernet IP address

3. DIP Switch

	1	2	Description
123456	OFF	OFF	Normal Work
	ON	OFF	Firmware Update
	OFF	ON	Configuration mode
	ON	ON	Reserve

	3	4	5	6	M-Bus baud rate (bps)
	OFF	OFF	OFF	OFF	300
	ON	OFF	OFF	OFF	600
	OFF	ON	OFF	OFF	1200
	ON	ON	OFF	OFF	2400
123456	OFF	OFF	ON	OFF	4800
	ON	OFF	ON	OFF	9600
	OFF	ON	ON	OFF	19200
	ON	ON	ON	OFF	38400
	OFF	OFF	OFF	ON	57600
	ON	OFF	OFF	ON	115200
	Othe	rs			User-defined

4. Configuration

The GW-7838-M utility (MBus Utility) can be downloaded from the website: http://ftp.icpdas.com/pub/cd/fieldbus_cd/m-bus/converter/l-7590/software/

Step1:

Connect the PC Ethernet to the GW-7838-M. Then set the DIP switch to the configuration mode (DIP 1 OFF, DIP 2 ON) and then power it on.

Step2:

Execute the M-Bus utility, and select Ethernet item and input IP address under the "Configure" tab. Then, click the connect button.



Step3:

Afterwards, the M-Bus utility shows all settings stored in the GW-7838-M if it had been configured before. You can refer to the "GW-7838-M user's manual" to configure the M-Bus meter setting according to the kind of meter. After save all the settings, export the configuration file.

Firmware Version	Sup	port Data Format	Node ID	(Hex)	GW-7838 Meter	
1.00	Data bit	Parity bit Stop bit	1	Set	Import Export Ad	d Save Delete Del
	5,6,7,8	n,e,o,1,0 1 or 2			Bolder Serial	Protocol Address Ma
KOTATY SWITCH ma M-Busa	pping table /RS-232 Baud Rat	le				Add Meter
0: 300,8,e,1	8: 57600,8,e,1	IP: 172	17 12 7			Protocol: EN-13757
1: 600,8,e,1	9: 115200,8,e,1					Address: 0
2 : 1200,8,e,1	A : User Defined	Set Mask: 255	240 0 0			Serial Num:
3: 2400,8,e,1	B: User Defined	Set				Medium: 0.0ther
4: 4800,8,e,1	C : User Defined	Set Gateway: 172	18 0 254			Cycle (S): 60
5: 9600,8,e,1	D: User Defined	Set				OK Car
6: 19200,8,e,1	E : User Defined	Set	ck Setting Modify			

Configure baud rate and data format.

Configure M-Bus meters.

Step4:

After configuration, set the DIP switch to operation mode and reboot the GW-7838-M. Re-execute M-Bus utility and switch to "Gateway Reader" tab.

•	M-Bus Utility v1.2	2	
	Configure Gateway	7 Reader	
	Module :	Ethemet -	
	IP Address:	172.17.12.7	Connect

Step6:

Select the Ethernet 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.

onfi	Gateway Read	lez							
inte	erface Ethernet	+ 172.17.12.7	b	4odbus ID	Timeout	500 ms	Folling Cy	rcle 10 s	ec Close
	Ethernet Stat	Protocol	Serial ID	Medium	Data Tyrne	Format	Peointer	Value	Unit
	1	EN-13757	02043151	12. Heat (in]	Data 17ps	TOTAL	29	Talaro	Unit
	-				Flow Tempe	16 Bit Integer	0000	2575	10-2 °C
					Return Tem	16 Bit Integer	0001	2585	10-2 °C
					Temperature	16 Bit Integer	0002	-9	10 ⁻² K
					Power	64 Bit Integer	0003	0	J/h
					Energy	64 Bit Integer	0007	36501	1
					Volume	64 Bit Integer	000B	4720	10-4 m ²
					Volume Flow	32 Bit Integer	000F	0	10-3 m3/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	