

## IEC 60870-5-104 IEC 104 Server

### HMI Setting:

Parameters	Recommended	Options	Notes
<b>PLC type</b>	IEC 60870-5-104 IEC 104 Server		
<b>PLC I/F</b>	Ethernet		
<b>Port no.</b>	2404		
<b>Sector</b>	257	0 ~ 65535	*note1
<b>Timing (T3)</b>	10		*note2
<b>Timing (K)</b>	12	1 ~ 32767	*note3

\*Note1: only one client can be connected at a time.

\*Note2: When there's no data transferred from server or client, a keep -alive package will be sent in the specified interval of time.

\*Note3: Communication will stop when the number of not received APDU reaches 12.

### Device Address:

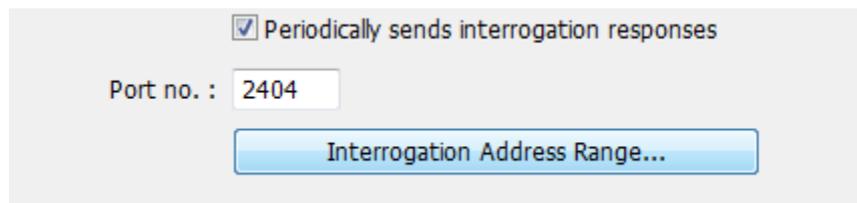
Bit/Word	Device type	Format	Range	Memo
B	Single Point	DDDDD	0 ~ 65535	
B	Single Command	DDDDD	0 ~ 65535	
B	Double Point	DDDDD	0 ~ 65535	
B	Measured Scaled	DDDDD	0 ~ 65535	
B	Measured Float	DDDDD	0 ~ 65535	
B	Integrated Totals	DDDDD	0 ~ 65535	
B	Step Position	DDDDD	0 ~ 65535	
B	Bitstring 32bit	DDDDD	0 ~ 65535	
W	Double Command	DDDDD	0 ~ 65535	
W	SetPoint Scaled Command	DDDDD	0 ~ 65535	
W	SetPoint Float Command	DDDDD	0 ~ 65535	
W	Regulating Step Command	DDDDD	0 ~ 65535	
W	Bitstring 32bit Command	DDDDD	0 ~ 65535	

## Application:

Upper computer IEC 104 Client-----HMI (IEC 104 Server) -----Modbus RTU

## Periodically sends interrogation responses:

Select [Periodically sends interrogation responses] checkbox and then click [Interrogation Address Range] to set address ranges of interrogations.

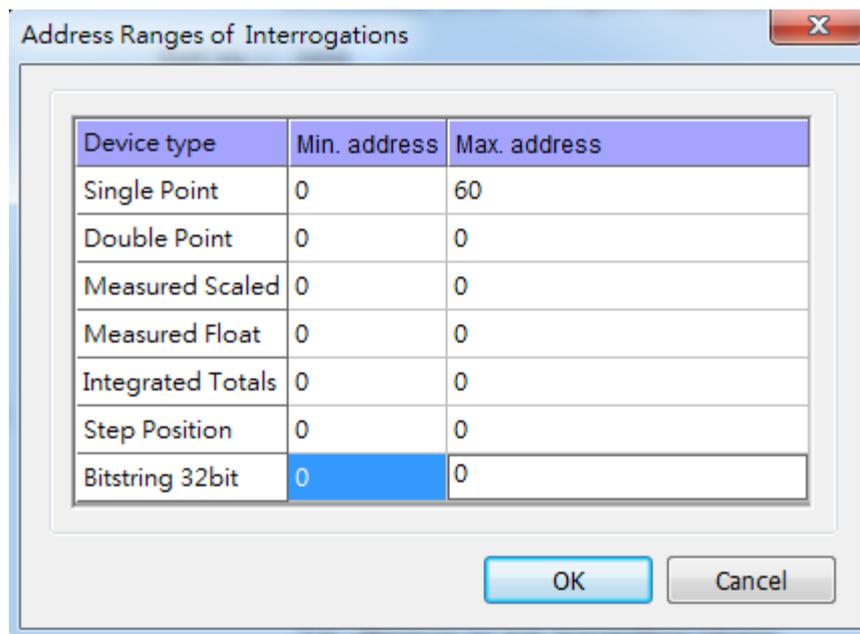


Periodically sends interrogation responses

Port no. : 2404

Interrogation Address Range...

As shown below, Single Point device type in addresses range from 0 to 60 will be sent to the Client.

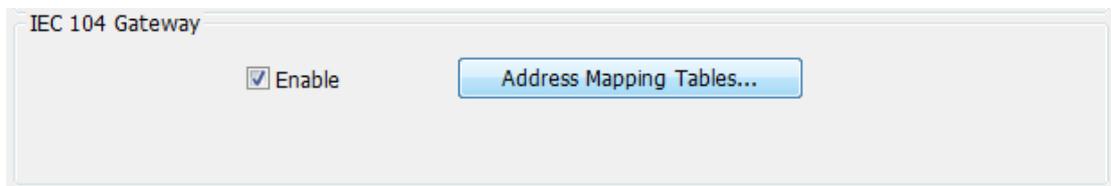


Device type	Min. address	Max. address
Single Point	0	60
Double Point	0	0
Measured Scaled	0	0
Measured Float	0	0
Integrated Totals	0	0
Step Position	0	0
Bitstring 32bit	0	0

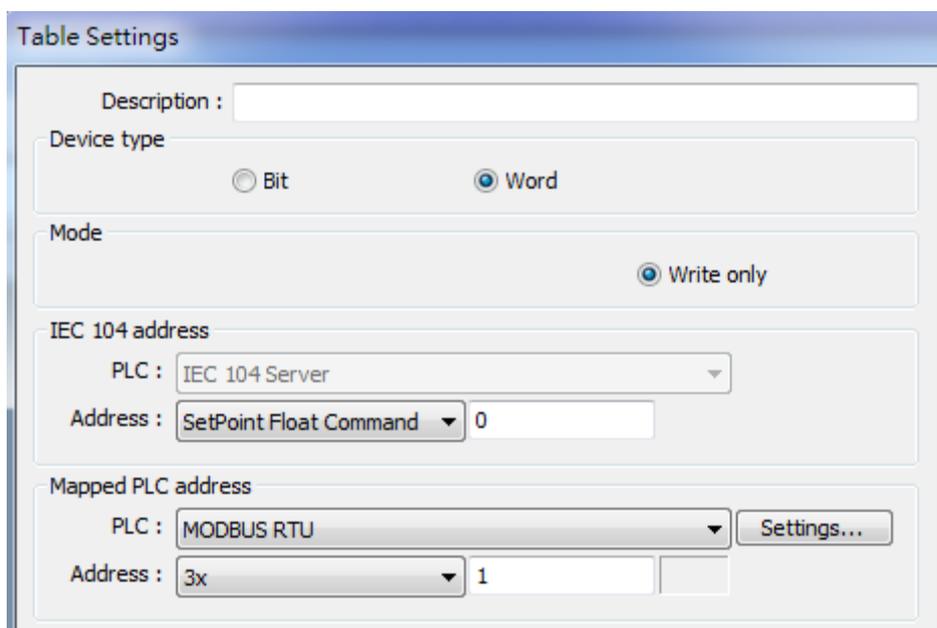
OK Cancel

## IEC104 Gateway

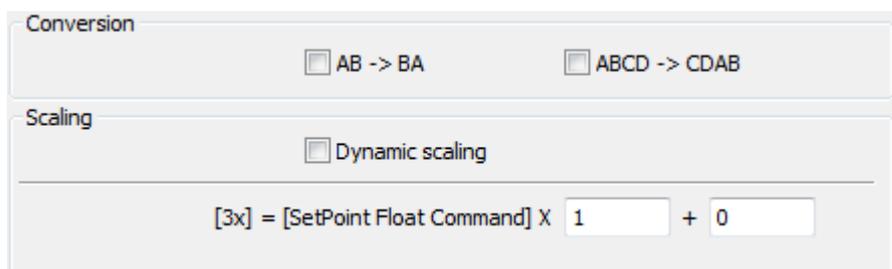
Set address mapping tables: Select [Enable] checkbox in IEC104 Gateway group box.



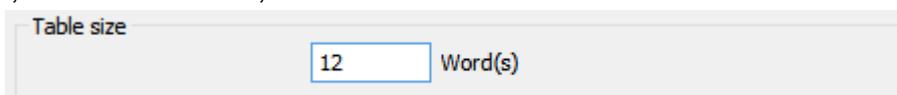
Click [Address Mapping Tables] to open Table Settings window, and map IEC 104 addresses with the ones of other devices. The applicable devices are local or Modbus PLCs.



Set scaling:



Set table size, as shown below, 12 words will be read at a time.



## Wiring Diagram:

### Diagram 1

Ethernet cable:

