

## Advantech AE Technical Share Document

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<b>Category</b>	■FAQ □SOP	<b>Related OS</b>	N/A
<b>Abstract</b>	What is the Modbus Address definition of WISE-2200-M		
<b>Keyword</b>	WISE-2200-M, Modbus address definition, LoRaWAN		
<b>Related Product</b>	WISE-2200-M		

■ **Problem Description:**

This document explains the Modbus address definition of WISE-2200-M.

The application scenario is as below. WISE-2200-M can send data to WISE-6610 via LoRaWAN, and WISE-6610 will parse the raw data and write into its built-in Modbus server. User can use Modbus/TCP to get the WISE-2200-M data from WISE-6610 based on the Modbus Address definition of WISE-2200-M on WISE-6610.

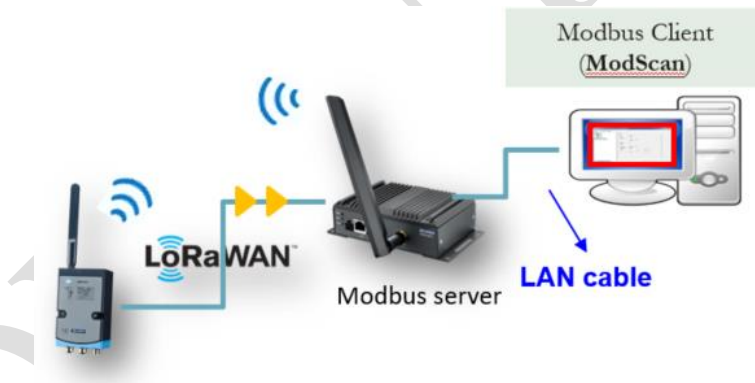


Fig.1 Use Modbus TCP to query WISE-2200-M data from WISE-6610

■ **Solution:**

Customer should notice that each WISE-I/O board have its own Modbus address definition.

For example, customer wants to read the AI0~AI3 of WISE-2200-M.

He should use modbus address 40001~40004 to query data from WISE-6610. (Refer to the WISE-2200-M Modbus table definition.)

Below is the mapping table of the modbus address on WISE-6610 Application server.

Note: Since the web page refresh rate is slower, the Node Detail data on WISE-6610 would have a little difference compare to ModScan reading value.

## LoRaWAN Gateway Settings

### Node Detail Data

**Devaddr**

FF389586

**Sensor PowerSrc Battery Level**

Device

Sensor	Counter Value	Signal Logic Status	Start Counter Status	Get/Clean Counter Overflow Status	Clean Counter Status	Get/Clean L2H Latch Status	Get/Clean H2L Latch Status	DI Change Status
Digital input 0	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Digital input 1	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Digital input 2	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Digital input 3	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Sensor	Range	Value	Event	MaxVal	MinVal	Low Alarm Status	High Alarm Status	Clean Maximum AI Value
Analog input 0	<input type="text" value="0x0143"/>	<input type="text" value="32773"/>	<input type="text" value="0"/>	<input type="text" value="33298"/>	<input type="text" value="32767"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Analog input 1	<input type="text" value="0x0143"/>	<input type="text" value="32768"/>	<input type="text" value="0"/>	<input type="text" value="32786"/>	<input type="text" value="32767"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Analog input 2	<input type="text" value="0x0143"/>	<input type="text" value="32768"/>	<input type="text" value="0"/>	<input type="text" value="32770"/>	<input type="text" value="32767"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Analog input 3	<input type="text" value="0x0143"/>	<input type="text" value="32768"/>	<input type="text" value="0"/>	<input type="text" value="32769"/>	<input type="text" value="32767"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Analog input	<input type="text" value="0x0103"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

**ModSca1**

Address:       Device Id:       Number of Polls: 118  
 Length:       MODBUS Point Type:       Valid Slave Responses:

40001: <33297>	40008: <00000>	40015: <00000>	40022: <00000>
40002: <32786>	40009: <00000>	40016: <00000>	40023: <00000>
40003: <32770>	40010: <00000>	40017: <00000>	40024: <00000>
40004: <32768>	40011: <00000>	40018: <00000>	40025: <00000>
40005: <00000>	40012: <00000>	40019: <00000>	40026: <00000>
40006: <00000>	40013: <00000>	40020: <00000>	40027: <00000>

For Help, press F1      Polls: 118      Resps: 11

For WISE-2200-M

WISE-2200-M		
	Serial Port	1

Modbus RTU							
Address 0X	Ch	Description	Attribute	Address 4X	Ch	Description	Attribute
01001 ~ 01128	0~127	COM1 Bit value	R/W	41001 ~ 41128	0~127	COM1 Word value	R/W
				41201 ~ 41327	0~127	COM1 Bit value error code	Read
				41401 ~ 41527	0~127	COM1 Word value error code	Read
<b>Miscellaneous</b>							
Address 0X	Ch	Description	Attribute	Address 4X	Ch	Description	Attribute
5001		RTC Battery Low Event	Read	45001		RTC Battery Voltage	Read
5002		(Main) Battery Low Event	Read	45002		External Power (mV)	Read
				45003		Main Battery Voltage	Read
				45004		Battery Level (0 ~ 100 %)	Read
				45005		Battery Status (*6)	Read

(Addr): Upper word  
(Addr+1): Lower word

5001 ~ 5099 : System Information  
5101 ~ 5199 : Data Logger

				45006		Power source (*4)	Read
				45011	(Upper word)	Timestamp	Read
				45012	(Lower word)		
				45101		Data Logger Status	Read
				45301		RSSI (unit: -dBm)	Read
				45302		SNR (unit: dB)	Read
				45311~45314		*Device EUI (EUI-64)	Read
				45315~45316		Frame FCntUp	Read
				45317~45318		Frame FCntDown	Read
				45319		Packet Loss (0.01%)	Read

(Addr): Upper word ~  
(Addr+3): Lower word  
\* ABP mode:  
45311~45312: 0000  
45313~45314: DevAddr of ABP  
\* OTAA mode:  
45311~45314: EUI-64