

All-in-ONE IAQ Sensor

Modbus parameter specifications

AEASHWAQRTHRHC2TCP2P1-XX





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Revision History

Item	Description	Date	PIC
1.00	First version	28 th Jul, 2026	Gregory Wong

1. IAQ parameters:

	unit	Range	resolution
Temperature	°C	-40-80	0.1
Humidity	%	0-99.9	0.1
Carbon dioxide (CO2)	ppm	400-5000	1
PM2.5	ug/m ³	0-500	1
PM10	ug/m ³	0-500	1
TVOC	ppb	0-60000	1

2. Modbus Communication Parameters

Physical Interface	RS485
Baud Rate	9600 bps
Data Bits	8 bits for RTU mode
Parity	None
Stop Bits	1 bit
Slave Address	1
Function Code	0x03 (Read Holding Register)

3. Data and Register Structure

	Address	PLC Addr	Data type	Value	Access
Temperature	0000	40001	Integer (16bit)	Value / 10	Read Only
Humidity	0001	40002	Integer (16bit)	Value/ 10	Read Only
PM2.5	0002	40003	Integer (16bit)	Value/ 1	Read Only
PM10	0003	40004	Integer (16bit)	Value/ 1	Read Only
CO2	0004	40005	Integer (16bit)	Value/ 1	Read Only
TVOC	0005	40006	Integer (16bit)	Value/ 1	Read Only
Slave ID	2560	42561	Integer (16bit)	Value/ 1	Read/ Write