LETTER of AGREEMENT

Device Communication Basic Parameters

Code	8-bit binary
Data bit	8-bit
Parity bit	no
Stop bit	1 person
Error checking	CRC (Redundant Cyclic Code)
Baud rate	Factory default is 4800bit/s

Data frame format definition

Modbus-RTU communication protocol is adopted, the format is as follows:

Initial structure ≥ 4 bytes of time

Address code = 1 byte

Function code = 1 byte

Data area = N bytes

Error check = 16-bit CRC

Ending structure ≥ 4 bytes of time

Address code: It is the address of the transmitter, which is unique in the communication network (factory default 0x01).

Function code: the function instruction of the command sent by the host.

Data area: The data area is the specific communication data, pay attention to the high byte of the 16bits data first!

CRC code: two-byte check code.

Register Address

Register address	PLC address	Support function code	Illustrate
0x0000	40001	0x03/0x04	pH value (16-bit unsigned integer, 100 times the actual value)
0x0001	40002	0x03/0x04	temperature (16-bit signed integer, 10 times the actual value)
0x0050	40081	0x03/0x04/ 0x06	PH deviation value (16-bit signed integer, 100 times the actual value)
0x0051	40082	0x03/0x04/ 0x06	Temperature deviation value (16-bit signed integer, 10 times the actual value)
0x0060	40097	0x03/0x04/ 0x06	Whether to manually compensate (1: yes 0: no)
0x0061	40098	0x03/0x04/ 0x06	Manual compensation for temperature (16-bit signed integer, 10 times the actual value)
0x0120、0x0121	40289、40290	0x10	Electrode calibration (two registers are used in conjunction)
0x07D0	42001	0x03/0x04/ 0x06/0x10	1~254 (16-bit unsigned integer, factory default 1)
0x07D1	42002	0x03/0x04/ 0x06/0x10	0 for 2400 1 for 4800 2 for 9600 3 for 19200 4 for 38400 5 for 57600 6 for 115200 7 for 1200