

Daisy20

compact weather station transmitter

User Manual



Index

1	Customer Support.....	3
2	Introduction	4
3	Wiring diagrams	5
4	Dimension and Ordering Infomation	6
4.1	Dimension	6
4.2	Ordering Infomation	6
5	Installation	8
5.1	Installation	8
6	Output Signal Conversion	10
7	RS485 Modbus Protocol	11
7.1	Modbus Protocol	11
7.2	Modbus Register	11
7.3	Modbus Register Detail Descripton	13
7.4	Modbus Function Code	16
7.4.1	Function Code 3 Protocol Example	16
7.4.2	Function Code 4 Protocol Example	17
7.4.3	Function Code 6 Protocol Example	19
7.4.4	Function Code 16 Protocol Example	20
8	Software Configuration Utility.....	21
8.1	Hardwar Setup	21
8.2	Universal Modbus Comm Utility	21
8.3	SensorOneSet Configuration Utility	22
	Appendix	23
	Copyright and Trademark	23
	Version Control	23

1 Customer Support

Thank you very much for your order. Our success comes from the continuous faith in the excellence of our products and services, something we are committed to and would never sacrifice. Our customer service, especially in the after sales phase, guarantees the satisfaction of our clients. In line with this strategy, we appreciate that you can share with us your feedback at any time for our improvement, be it positive or negative, so if we can serve you better in anyway, please do inform us.

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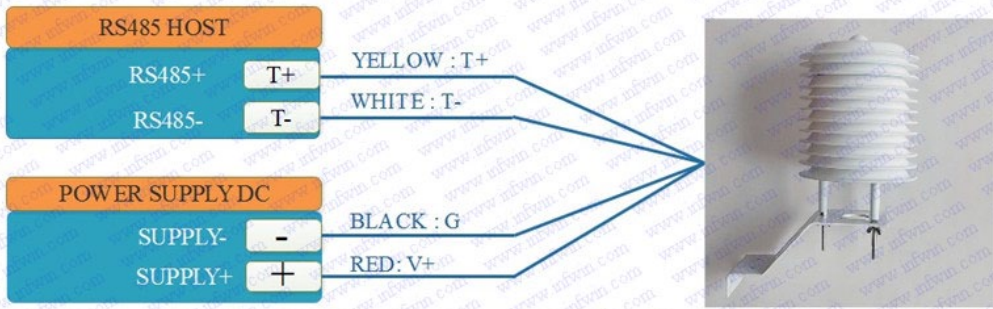
2 Introduction

Daisy20 measures air temperature, humidity, dew point, barometric pressure, ambient light (Illuminance), and CO2 concentration with RS485 interface Modbus-RTU protocol. The sensor is applicable for science research, irrigation, greenhouse, smart agriculture etc.

- Air temperature, humidity, dew point, barometric pressure, illuminance, CO2 measurement
- Output Interface with RS485 Modbus-RTU
- Water proof to IP68 ratings
- High accuracy with excellent stability
- Reverse power protection and Built-in TVS/ESD protection

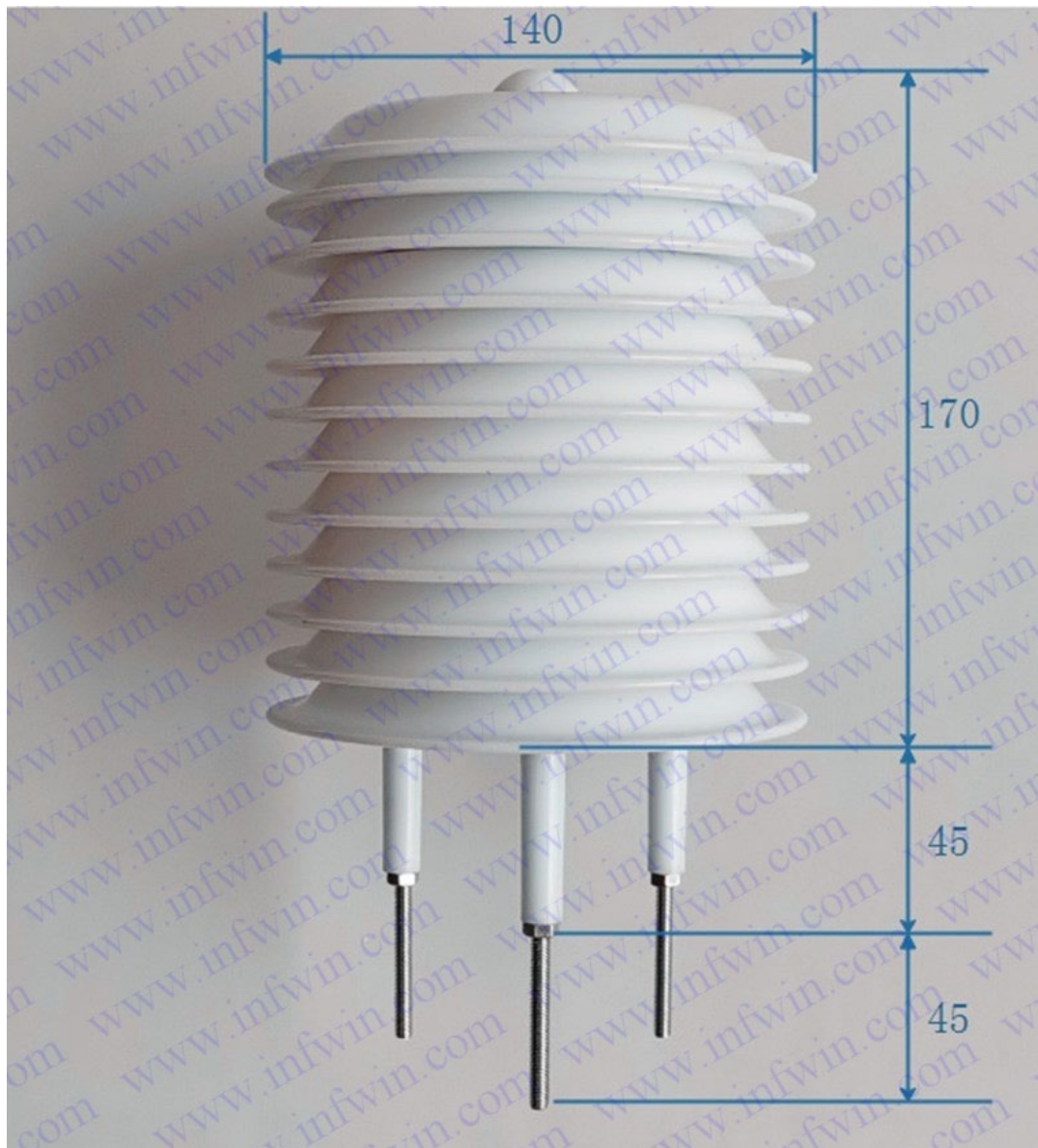
Specifications	
Output Interface	RS485 Modbus-RTU
Power Supply	9-30V/DC
Power Consumption	20mA@24V DC
Warm up time	30 seconds
Temperature	Range:-40~80℃, Resolution:0.01℃, Accuracy: +/-0.2℃(SENSIRION® SHT25) Range:-40~80℃, Resolution:0.01℃, Accuracy: +/-0.3℃(SENSIRION® SHT21) Range:-40~80℃, Resolution:0.01℃, Accuracy: +/-0.3℃(SENSIRION® SHT20)
Humidity	Range:0-100%, Resolution:0.01%, Accuracy:+/-1.8% RH(SENSIRION® SHT25) Range:0-100%, Resolution:0.01%, Accuracy:+/-2% RH(SENSIRION® SHT21) Range:0-100%, Resolution:0.01%, Accuracy:+/-3% RH(SENSIRION® SHT20)
Barometric	Range: 300-1100mbar Resolution:0.1mbar Accuracy:+/-0.15mbar(Relative Accuracy),+/-1mbar(Absolute Accuracy)
Illuminance	Range:0~200000 Lux, Accuracy:±6% , Resolution:1lux Direction Error : 30°±3%,60°±6%,80°±24% (Consine Characteristics)
CO2 concentration	Range 0-1000ppm, Accuracy ±(50ppm+3% Reading value) , Resolution 1ppm Range 0-2000ppm, Accuracy ±(50ppm+3% Reading value) , Resolution 1ppm Range 0-5000ppm, Accuracy ±(50ppm+3% Reading value) , Resolution 1ppm Range 0-10000ppm, Accuracy ±(10% Reading value), Resolution 1ppm Range 0-30000ppm, Accuracy ±(10% Reading value), Resolution 1ppm Range 0-50000ppm, Accuracy ±(10% Reading value), Resolution 1ppm
IP Ratings	IP68
Operating Temperature	-40~85℃, 0-95%RH
Installation	Mounting hole installation
Cable Length	2 meters or Customize
Dimension	Diameter*Height=140*300mm

3 Wiring diagrams

Type	Wiring diagram
RS485 Modbus	Red (V+): Power Supply + Black (G): Power Supply - Yellow (T+): RS485+/A/T+ White (T-): RS485-/B/T- Wiring Diagram for RS485 Modbus  The diagram illustrates the wiring for an RS485 Modbus system. It shows three main components: an RS485 HOST, a POWER SUPPLY DC, and a physical sensor module. The RS485 HOST has two terminals: RS485+ (T+) and RS485- (T-). The POWER SUPPLY DC has two terminals: SUPPLY- (-) and SUPPLY+ (+). The physical sensor module has four terminals: YELLOW (T+), WHITE (T-), BLACK (G), and RED (V+). The connections are as follows: RS485+ (T+) is connected to YELLOW (T+), RS485- (T-) is connected to WHITE (T-), SUPPLY- (-) is connected to BLACK (G), and SUPPLY+ (+) is connected to RED (V+). ALL RS485 communication parameters (Mosbus Slave Address, baudrate, parity, databits, stopbits) are set in internal register and can be saved when power down, the factory setting is ADDRESS=1, BAUDRATE=9600bps, PARITY=NONE, DATABITS=8bits, STOPBITS=1bit; Sometimes you may FORGET the communication settings, In this case, you can open the shield module and press the SET button for more that 3 seconds, then all the communication parameters reset to factory setting, then communicating with the sensor using the factory setting to set your desired settings. Please re-power up the sensor to make the settings effective.

4 Dimension and Ordering Infomation

4.1 Dimension



Unit: mm

4.2 Ordering Infomation

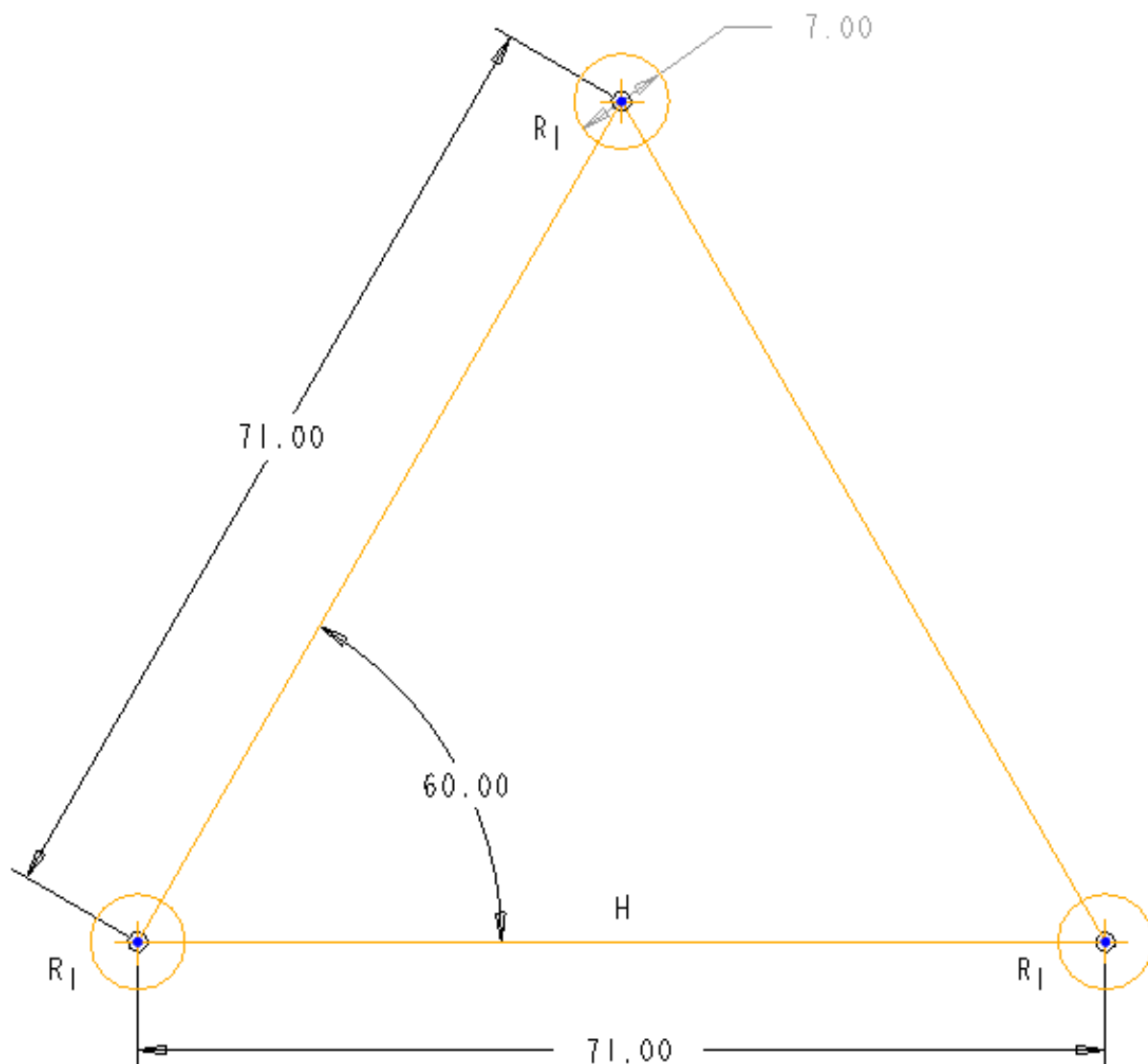
Parameters	Code	Comments
Code 1: Product Series	Daisy20	Daisy20 compact weather station
Code 2: Power Supply	A	9-30V DC

Code 3: Output Interface	A	RS485,Modbus-RTU
Code 4: Cable Length	002 XXX	2 meters Customize, XXX is required cable length(Unit: meter)
Code 5: Mounting Kit	A X	Mounting Kit N/A
Code 6: Temperature	A B C X	-40-80°C, +/-0.3°C (SENSIRION® SHT20) -40-80°C, +/-0.3°C (SENSIRION® SHT21) -40-80°C, +/-0.2°C (SENSIRION® SHT25) N/A
Code 7: Humidity	A B C X	0-100%RH, +/-3% (SENSIRION® SHT20) 0-100%RH, +/-2% (SENSIRION® SHT21) 0-100%RH, +/-1.8% (SENSIRION® SHT25) N/A
Code 8: Dew Point	A X	YES N/A
Code 9: Barometric	A X	300-1100mbar, +/-0.15mbar(Relative Accuracy), +/-1mbar(Absolute Accuracy) N/A
Code 10: Illuminance	A X	0-200000 lux None
Code 11: CO2	A B C D E F X	0-1000ppm 0-2000ppm 0-5000ppm 0-10000ppm 0-30000ppm 0-50000ppm N/A
Ordering Code Example: Daisy20 compact weather station, Power Supply 9-30V DC, Output interface RS485,Modbus-RTU, Cable length 2 meters, With Mounting Kit, Temperature -40-80°C, +/-0.3°C (SENSIRION® SHT20), Humidity 0-100%RH, +/-3% (SENSIRION® SHT20), With Dew Point, Barometric 300-1100mbar, +/-0.15mbar(Relative Accuracy), +/-1mbar(Absolute Accuracy), Illuminance N/A, CO2 N/A, Ordering Code is : Daisy20 - AA002AAAAAXX		

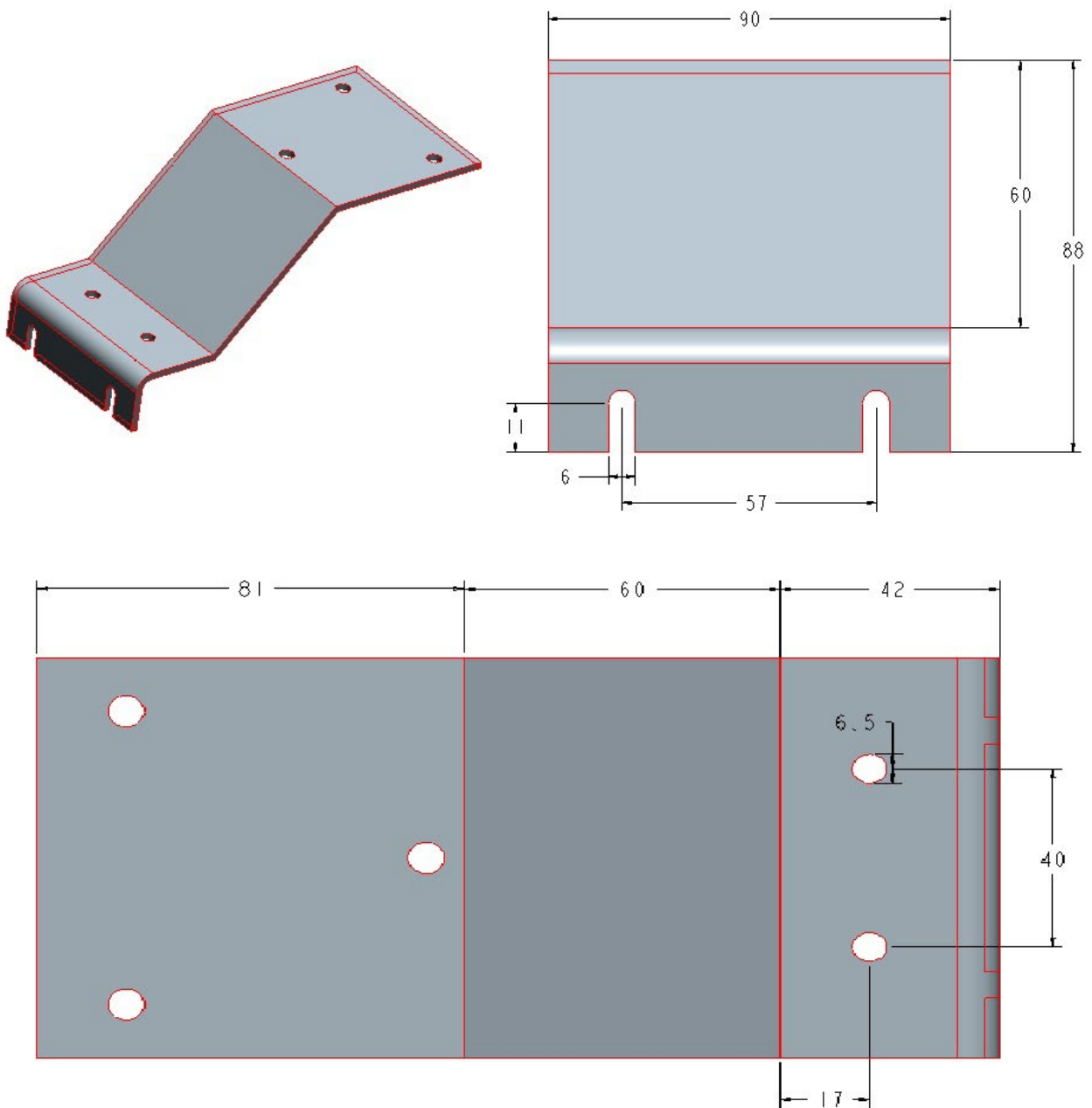
5 Installation

5.1 Installation

Mounting hole dimension



Mounting kit dimension



Unit: mm

6 Output Signal Conversion

Output Interface	Parameters Range	Conversion Formula
RS485 Modbus-RTU	Temperature: -40-80℃	TEMP=(REGISTER VALUE)/100. When REGISTER VALUE=2013, then TEMP= 2013/100=20.13℃.
	Humidity: 0-100%	HUMIDITY=(REGISTER VALUE)/100. When REGISTER VALUE=2013, then HUMIDITY= 2013/100=20.13%.
	Dew Point: -40-80℃	DEWPOINT=(REGISTER VALUE)/100. When REGISTER VALUE=2013, then DEWPOINT= 2013/100=20.13℃.
	Barometric Pressure: 300-1100mbar	BAROMETRIC=(REGISTER VALUE)/10. When REGISTER VALUE=10023, then BAROMETRIC = 10023/10=1002.3mbar.
	Illuminance: All ranges	ILLU =(32-Bits REGISTER VALUE). When REGISTER VALUE=1000, then ILLU= 1000 lux
	CO2: All ranges	CO2=(REGISTER VALUE). When REGISTER VALUE=1000, then CO2= 1000ppm.
Customize	Contact support for customized sensor interface	

7 RS485 Modbus Protocol

7.1 Modbus Protocol

Modbus Protocol is widely used to establish master-slave communication between intelligent devices or sensors. A MODBUS message sent from a master to a slave contains the address of the slave, the function code (e.g. 'read register' or 'write register'), the data, and a check sum (LRC or CRC).

The sensor is RS485 interface with Modbus protocol. The default serial communication settings is slave address 1, modbus rtu, 9600bps, 8 databits and 1 stop bit. All communication settings can be changed with modbus command, and take effective after re-power up the sensor.

Following modbus function code are supported by sensor.

Modbus Function Code 0x03 : used for reading holding register.

Modbus Function Code 0x04 : used for reading input register.

Modbus Function Code 0x06 : used for writing single holding register.

Modbus Function Code 0x10: used for writing multiple holding register.

7.2 Modbus Register

Parameters	Register Addr. (HEX/DEC)	Data Type	Modbus Function Code(DEC)	Range and Comments	Default Value
TEMPRATURE	0x0000 /0	INT16 RO	3/4	-4000-8000 for -40.00~80.00℃.	N/A
HUMIDITY	0x0001 /1	UINT16 RO	3/4	0-10000 for 0-100%	N/A
DEWPOINT	0x0002 /2	UINT16 RO	3/4	-4000-8000 for -40.00~80.00℃.	N/A
BAROMETRIC PRESSURE	0x0003 /3	UINT16 RO	3/4	3000-11000 for 300.0-1100.0mbar	N/A
ILLUMINANCE HIGH 16 Bits	0x0004 /4	UINT16 RO	3/4	0-200000 for 0-200000Lux	N/A
ILLUMINANCE LOW 16 Bits	0x0005 /5	UINT16 RO	3/4		N/A
CO2 ppm value	0x0006 /6	UINT16	3/4	0-50000 for 0-50000ppm	N/A

		RO			
RESERVED	0x0007 /7	UINT16 RO	3/4	0	0
RESERVED	0x0008 /8	UINT16 RO	3/4	0	0
RESERVED	0x0009 /9	UINT16 RO	3/4	0	0
RESERVED	0x000A /10	UINT16 RO	3/4	0	0
RESERVED	0x000B /11	UINT16 RO	3/4	0	0
RESERVED	0x000C /12	UINT16 RO	3/4	0	0
SLAVEADDRESS	0x0200 /512	UINT16 R/W	3/6/16	0-255	1
BAUDRATE	0x0201 /513	UINT16 R/W	3/6/16	0-6 0:1200bps 1:2400bps 2:4800bps 3:9600bps 4:19200bps 5:38400bps	3:9600bps
PROTOCOL	0x0202 /514	UINT16 R/W	3/6/16	0 0:Modbus RTU	0:Modbus RTU
PARITY	0x0203 /515	UINT16 R/W	3/6/16	0-2 0:None 1:Even 2:Odd	0:None Parity
DATABITS	0x0204 /516	UINT16 R/W	3/6/16	1 1:8 databits	1:8 databits
STOPBITS	0x0205 /517	UINT16 R/W	3/6/16	0-1 0:1 stopbit 1:2 stopbits	0:1 stopbit
RESPONSEDELAY	0x0206 /518	UINT16 R/W	3/6/16	0-255 for 0-2550 milliseconds	0
ACTIVEOUTPUTINTERVAL	0x0207 /519	UINT16 R/W	3/6/16	0-255 for 0-255 seconds.	0

NOTE: UINT16:16 bit unsigned integer, INT16:16bit signed integer

NOTE: RO: Register is Read Only, R/W: Register is Read/Write

NOTE: HEX is Hexadecimal (data with 0x/0X prefix), DEC is Decimal

7.3 Modbus Register Detail Descripton

TEMPERATURE		
Data Range	-4000-8000 For -40.00~80.00℃	Default: N/A
Power Down Save	N/A	

Note:Temperature value (Binary complement).

Example:When REGISTER = 0x0702 (HEX format), then

VALUE=(0x07*256+0x02)/100=17.94℃.When REGISTER=FF05H (HEX format),then

VALUE=((0xFF*256+0x05)-0xFFFF-0x01)/100 =(0xFF05-0xFFFF-0x01)/100=-2.51℃.

HUMIDITY		
Data Range	0-10000 For 0-100%	Default: N/A
Power Down Save	N/A	

Note:Volmetric Water Content value.

Example:When REGISTER = 0x0702 (HEX format), then VALUE=(0x07*256+0x02)/100=17.94%

DEWPOINT		
Data Range	-4000-8000 For -40.00~80.00℃	Default: N/A
Power Down Save	N/A	

Note:Temperature value (Binary complement).

Example:When REGISTER = 0x0702 (HEX format), then

VALUE=(0x07*256+0x02)/100=17.94℃.When REGISTER=FF05H (HEX format),then

VALUE=((0xFF*256+0x05)-0xFFFF-0x01)/100 =(0xFF05-0xFFFF-0x01)/100=-2.51℃.

BAROMETRIC PRESSURE		
Data Range	3000-11000 For 300.0-1100.0mbar	Default: N/A
Power Down Save	无	

Note: Barometric Pressure

EXAMPLE:When REGISTER =0x2827H (HEX format), then VALUE= (0x28*256+0x27)
/10=10279/10 =1027.9mbar.

ILLUMINANCE - HIGH 16 Bits
ILLUMINANCE - LOW 16 Bits

Data Range	0-200000 for 0-200000 lux	Default: N/A
Power Down Save	N/A	

Note: Illuminance value

Example: When REGISTER(HIGH 16 Bits) = 0x0003 (HEX format) and REGISTER(HIGH 16 Bits) = 0x0D40 (HEX format), then VALUE=(0x0003 *65536+0x0D40) = 200000lux

CO2		
Data Range	0-50000 For 0-50000ppm	Default: N/A
Power Down Save	N/A	

Note: Temperature value (Binary complement).

Example: When REGISTER = 0x0702 (HEX format), then VALUE=(0x07*256+0x02) =1794ppm

SLAVEADDRESS --- Modbus Slave Address		
Data Range	0-255	Default: 1
Power Down Save	YES	

Note: Please re-power on the sensor to take effective after set.

BAUDRATE --- Serial Comm Baudrate		
Data Range	0-5 0: 1200bps 1: 2400bps 2: 4800bps 3: 9600bps 4: 19200bps 5: 38400bps	Default: 3
Power Down Save	YES	

Note: Please re-power on the sensor to take effective after set.

PROTOCOL --- Serial Comm Protocol		
Data Range	0-1 0:Modbus RTU 1:Modbus ASCii	Default: 0
Power Down Save	YES	

Note: Please re-power on the sensor to take effective after set.

PARITY --- Serial Comm Parity		
Data Range	0-2 0:NONE 1:EVEN 2:ODD	Default: 0
Power Down Save	YES	

Note: Please re-power on the sensor to take effective after set.

DATABITS --- Serial Comm Databits		
Data Range	1 1:8 databits	Default: 1
Power Down Save	YES	

Note: Please re-power on the sensor to take effective after set.

STOPBITS --- Serial Comm Stopbits		
Data Range	0-1 0:1 stopbit 1:2 stopbits	Default: 0
Power Down Save	YES	

Note: Please re-power on the sensor to take effective after set.

RESPONSEDELAY --- Serial Comm Response Delay		
Data Range	0-255 for 0-2550 milliseconds, 0 for disabled	Default: 0
Power Down Save	YES	

Note: Please re-power on the sensor to take effective after set.

Note: Sensor will delay a period before response to master request command.

Example: When set to 5 and receive a request from master device, then sensor will delay 5*10ms=50ms, then response to master.

ACTIVEOUTPUTINTERVAL --- Serial Comm Active Output Interval time		
Data Range	0-255 for 0-255 seconds, 0 for disabled	Default: 0
Power Down Save	YES	

Note: Please re-power on the sensor to take effective after set.

Note: Sensor will output the data actively without any master request command.

Note: Only ONE sensor should be on RS485 network, or there will be data collision and corrupt the

data on line.

Note: Refer to SETTING mode to exit the Active Output Mode.

Example: When set to 5 then sensor will output the data every 5 seconds without any master request command.

7.4 Modbus Function Code

For description below, data started with 0X/0x means that it's in HEX format.

7.4.1 Function Code 3 Protocol Example

Master Request: AA 03 RRRR NNNN CCCC

AA	1 byte	Slave Address, 0-255
0x03	1 byte	Function Code 3
RRRR	2 byte	Starting Register Addr
NNNN	2 byte	Quantity of Register to read
CCCC	2 byte	CRC CHECKSUM

Slave Response: AA 03 MM VV0 VV1 VV2 VV3... CCCC

AA	1 byte	Slave Address, 0-255
0x03	1 byte	Function Code 3
MM	1 byte	Register Data Byte Count
VV0, VV1	2 byte	Register Value (High8bits first)
VV2, VV3	2 byte	Register Value (High8bits first)
...	...	Register Value (High8bits first)
CCCC	2 byte	CRC CHECKSUM

Example: Read register 0x0200-0x0201, that is slave address and baudrate.

Master Request: 01 03 0200 0002 C5B3

Slave Addr.	1 byte	0x01
Function Code	1 byte	0x03
Starting Register Addr.	2 byte	0x0200
Quantity of Register	2 byte	0x0002

to read		
Checksum	2 byte	0xC5B3

Slave Response:01 03 04 00 01 00 03 EB F2

Slave Addr.	1 byte	0x01
Function Code	1 byte	0x03
Register Data Byte Count	1 byte	0x04
Register Value: Address	2 byte	0x00(HIGH 8 Bits)
		0x01(LOW8 Bits)
Register Value: Baudrate	2 byte	0x00(HIGH 8 Bits)
		0x03(LOW8 Bits)
Checksum	2 byte	0xEBF2

7.4.2 Function Code 4 Protocol Example

Master Request:AA 04 RRRR NNNN CCCC

AA	1 byte	Slave Address,0-255
0x04	1 byte	Function Code 4
RRRR	2 byte	Starting Register Addr
NNNN	2 byte	Quantity of Register to read
CCCC	2 byte	CRC CHECKSUM

Slave Response:AA 04 MM VV0 VV1 VV2 VV3... CCCC

AA	1 byte	Slave Address,0-255
0x04	1 byte	Function Code 4
MM	1 byte	Register Data Byte Count
VV0,VV1	2 byte	Register Value (High8bits first)
VV2,VV3	2 byte	Register Value (High8bits first)
...	...	Register Value (High8bits first)
CCCC	2 byte	CRC CHECKSUM

Example:Read register 0x0000-0x0006,that is air temperature, humidity, dew point, barometric pressure, illuminance, CO2.

Master Request: 01 04 0000 0007 B1C8

Slave Addr.	1 byte	0x01
Function Code	1 byte	0x04
Starting Register Addr.	2 byte	0x0000
Quantity of Register to read	2 byte	0x0007
Checksum	2 byte	0xB1C8

Slave Response: 01 04 0E 09F2 1B96 07B4 26EF 0000 00C1 02A6 DEF4

Slave Addr.	1 byte	0x01
Function Code	1 byte	0x04
Register Data Byte Count	1 byte	0x0E
Register Value: Temperature	2 byte	0x09
		0xF2
Register Value: Humidity	2 byte	0x1B
		0x96
Register Value: Dew Point	2 byte	0x07
		0xB4
Register Value: Barometric Pressure	2 byte	0x26
		0xEF
Register Value: Illuminance high 16 bits	2 byte	0x00
		0x00
Register Value: Illuminance low 16 bits	2 byte	0x00
		0xC1
Register Value: CO2 Value	2 byte	0x02
		0xA6
Checksum	2 byte	0xDEF4

Temperature = $\text{INT}16(0x09F2)/100 = 2546/100 = 25.46\text{ }^{\circ}\text{C}$

Humidity = $\text{UINT}16(0x1B96)/100 = 7062/100 = 70.62\%$

Dew Point = $\text{INT}16(0x07B4)/100 = 1972/100 = 19.72\text{ }^{\circ}\text{C}$

Barometric Pressure = $\text{UINT}16(0x26EF)/10 = 9967/10 = 996.7\text{mbar}$

Illuminance = $\text{UINT}32(0x000000C1) = 193\text{lux}$

CO2=UINT16(0x02A6)=678ppm

7.4.3 Function Code 6 Protocol Example

Master Request:AA 06 RRRR VVVV CCCC

AA	1 byte	Slave Address,0-255
0x06	1 byte	Function Code 6
RRRR	2 byte	Register Addr (High8bits first)
VVVV	2 byte	Register Value (High8bits first)
CCCC	2 byte	CRC CHECKSUM

Slave Response:AA 06 RRRR VVVV CCCC

AA	1 byte	Slave Address,0-255
0x06	1 byte	Function Code 6
RRRR	2 byte	Register Addr (High8bits first)
VVVV	2 byte	Register Value (High8bits first)
CCCC	2 byte	CRC CHECKSUM

Example:Write Register 0x0021,that is set temperature unit to °F .

Request:01 06 0021 0001 1800

Slave Addr.	1 byte	0x01
Function Code	1 byte	0x06
Register Addr.	2 byte	0x0021 (High8bits first)
Register Value	2 byte	0x0001 (High8bits first)
Checksum	2 byte	0x1800

Response:01 06 0021 0001 1800

Slave Addr.	1 byte	0x01
Function Code	1 byte	0x06
Register Addr.	2 byte	0x0021 (High8bits first)
Register Value	2 byte	0x0001 (High8bits first)
Checksum	2 byte	0x1800

7.4.4 Function Code 16 Protocol Example

Master Request: AA 10 RRRR NNNN MM VVVV1 VVVV2 ...CCCC

AA	1 byte	Slave Address,0-255
0x10	1 byte	Function Code 0x10
RRRR	2 byte	Starting Register Addr
NNNN	2 byte	Quantity of Register to write
MM	1 byte	Register Data Byte Count
VVVV1	2 byte	Register Value(High8bits first)
VVVV2	2 byte	Register Value(High8bits first)
...	...	Register Value(High8bits first)
CCCC	2 byte	CRC CHECKSUM

Slave Response: AA 10 RRRR NNNN CCCC

AA	1 byte	Slave Address,0-255
0x10	1 byte	Function Code 0x10
RRRR	2 byte	Starting Register Addr
NNNN	2 byte	Quantity of Register to write
CCCC	2 byte	CRC CHECKSUM

Example: Write Register 0x0200-0x0201, that is set slave address to 1, and baudrate to 19200bp.

Master Request: 01 10 0200 0002 04 0001 0004 BACC

0x01	1 byte	Slave Addr.
0x10(HEX)	1 byte	Function Code 0x10
0x0200	2 byte	Starting Register Addr
0x0002	2 byte	Quantity of Register to write
0x04	1 byte	Register Data Byte Count
0x0001	2 byte	Register Value: Slave Address 1
0x0004	2 byte	Register Value: Baudrate 19200bps
0xBACC	2 byte	CRC CHECKSUM

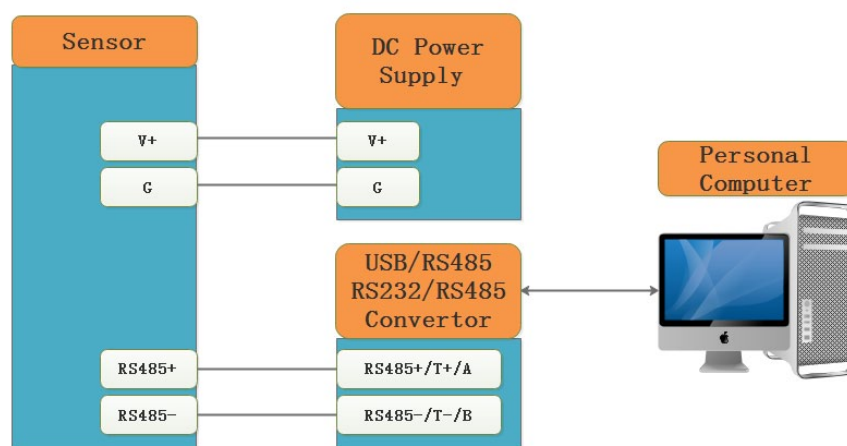
Salve Response: 01 10 0200 0002 4070

0x01	1 byte	Slave Addr.
0x10(HEX)	1 byte	Function Code 0x10

0x0200	2 byte	Starting Register Addr(High8bits first)
0x0002	2 byte	Quantity of Register to write(High8bits first)
0x4070	2 byte	CRC CHECKSUM

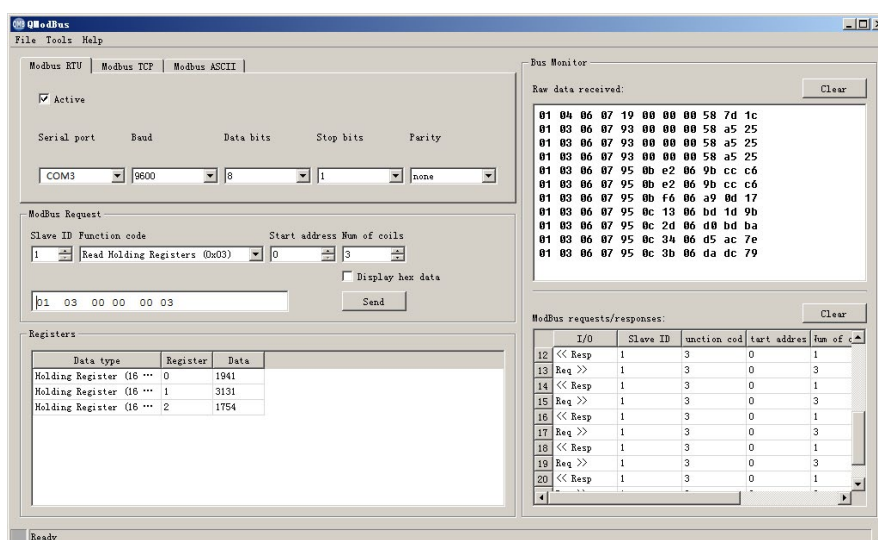
8 Software Configuration Utility

8.1 Hardwar Setup



8.2 Universal Modbus Comm Utility

You can use software listed below to try reading/writing the register of sensor,
<https://github.com/ed-chemnitz/qmodbus/releases>



8.3 SensorOneSet Configuration Utility

SensorOneSet is a configuration utility to read/set sensor config for all of our serial communication sensor products. Please contact us if you need the English version.

Appendix

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Version Control

Date	Version	Comment	Updated by
2017-01-21	V1.0	Initial Creation	fg49597