

Low Turbidity / Medium Turbidity / Suspended Solids Controller



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Safe Operation Procedures

Read the following instructions before using the instrument.

1. After unpacking the instrument please check for damage due to shipping.
2. The instrument must be operated by trained professional and technical personnel.
3. Read the manual carefully to avoid incorrect wiring connection that can cause equipment damage and safe problem.
4. After wiring carefully check all are correct then can power on and make sure the others equipments are correct.
5. Please avoid installing in a high humidity, high temperature, corrosive and in a direct sunlight environment.
6. Please separate the power lines of instrument from other machines that produces high noise in the power lines.

Instrument Use

Instruments are used in drinking water, clean water, low turbidity water application etc.

The instrument can be panel, wall or pipe mounted.

The instrument provides two current outputs. The maximum load is 500 Ohm.

The instrument provides 3 relays. It can pass though a maximum of 5 Amps at 250 VAC or 5 Amps at 30VDC.

Product Content

For 6000 Series, the product package contains 1 instrument, the printed manual, 4 sets of holders. (fixed block, fixed bar, screw).

Specifications (JNTU6000)

SPECIFICATIONS	DESCRIPTIONS
Current Output 1	Isolated, 4 to 20mA output, max. load 500Ω
Current Output Accuracy	±0.05mA
RS485	Modbus RTU protocol
Baud Rate	9600 / 19200 / 38400
Maximum Relay Contacts Capacity	5A / 250VAC 5A / 30VDC
Cleaning Setting	ON : 1 to 1000 seconds OFF : 0.1 to 1000.0 hours
Multi-Functional Relay	Clean / Period Alarm / Error Alarm
Relay Delay	0-120 seconds
Data Logging Capacity	500,000
Language Selection	English Traditional Chinese Simplified Chinese
Ambient Temperature Range	0 to +70°C
Storage Temperature	-20 to +70°C
Ambient Temperature Range	0 to +70°C
Waterproof Grade	IP65
Power Supply	90-260 VAC or 24 VDC Power consumption; < 5 watts
Installation	Panel / Wall / Pipe installation
Weight	6000 Series: 0.85Kg

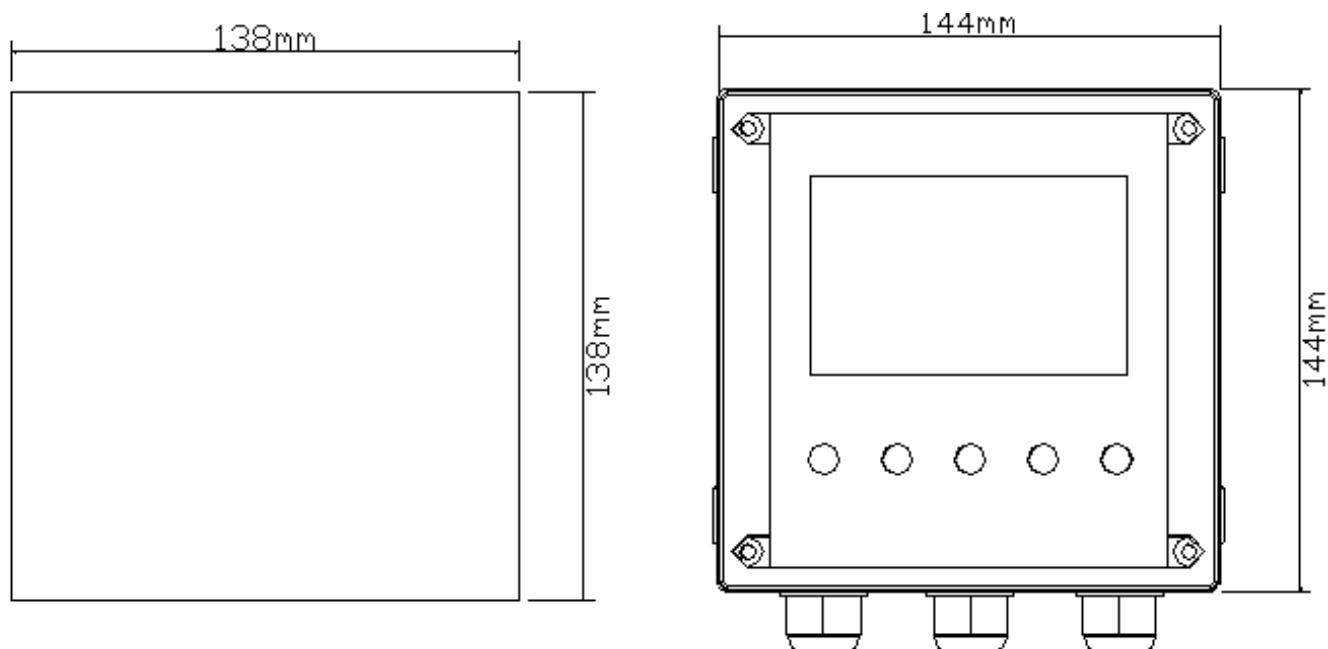
Specifications (Low Turbidity/Medium Turbidity/Suspended Solids Sensor)

SENSORS SPECIFICATIONS	LOW TURBIDITY	MEDIUM TURBIDITY	SUSPENDE D SOLIDS
Measuring Principle	Nephelometric 90 ^o scattered light		
Light Source	LED		
Measuring Range	0.0001 – 100.00 NTU	0.00 – 1,000 NTU	0 – 50,000 mg/l
Resolution	0.0000 – 9.9999 NTU; 0.0001 NTU 10.000 – 100.00 NTU; 0.001 NTU	0.00 – 19.99 NTU; 0.01 NTU 20.0 – 999.9 NTU; 0.1 NTU	10 mg/l
Accuracy	±2% of reading or 0.02 NTU, whichever is greater	2% of reading or 0.05 NTU, whichever is greater	3% of reading or 300 mg/l, whichever is greater
Cleaning System	-	Built-in Automatic Wiper	
Time Interval For Cleaning	-	15; 30; 60 mins	
Materials	PP-GF AES SUS316L	SUS316L Sapphire glass Fluorocarbon rubber EPDM PVC	
Cable Length	3 m	9 m	
Water Temperature	0 to +40°C		
Operating Temperature	-20 to +50°C Humidity 95% RH or less		

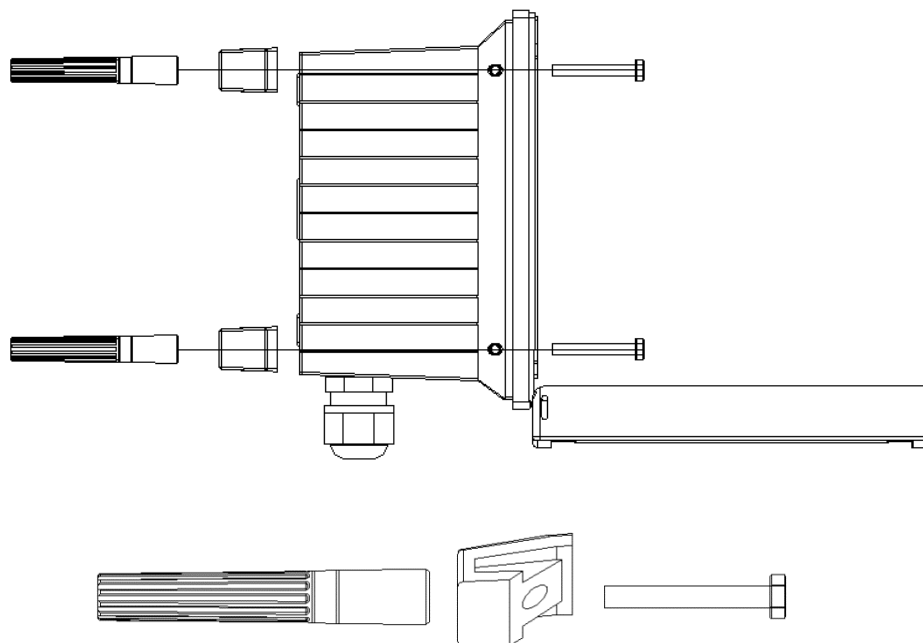
Instrument Installation

6000 Series: The instrument can be panel, wall or pipe mounted installation.

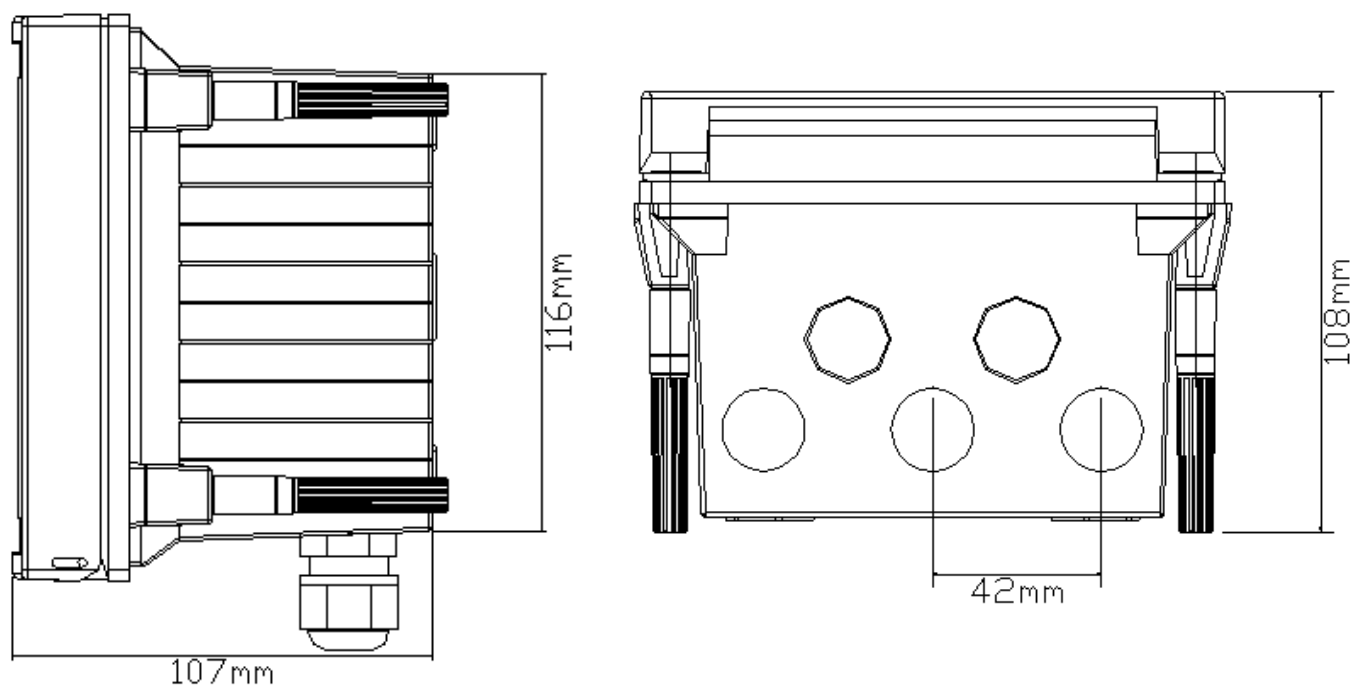
Panel Installation: Make a 138x138 mm square cutout and insert the instrument. Screw in the fixed block with the screws and fixed bar.



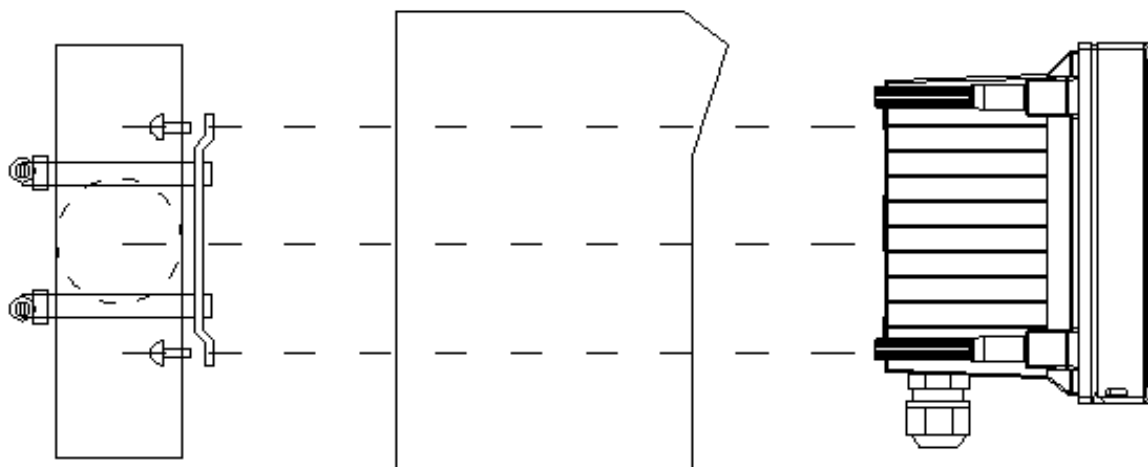
6000 Series cutout size



6000 Series installation figure



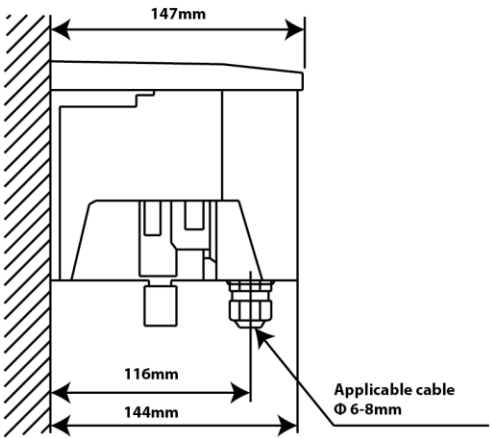
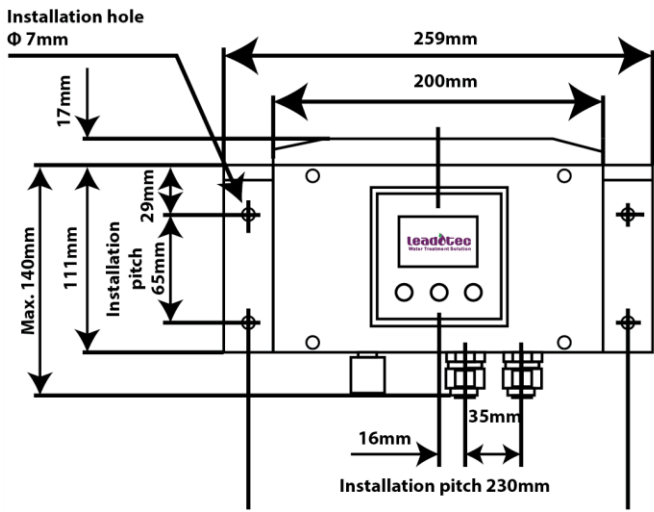
6000 Series dimension



6000 Series wall and pipe installation

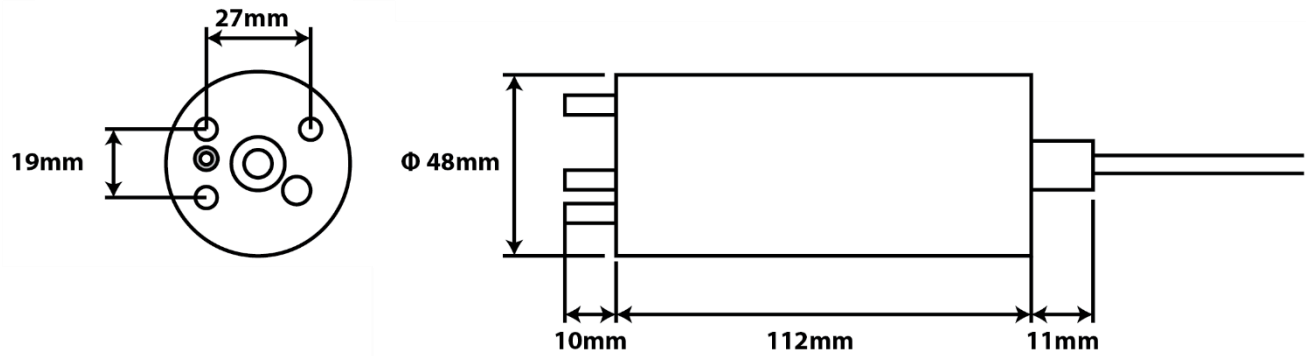
Sensor Dimensions

Low Turbidity Sensor



Dimensions of Low Turbidity Sensor

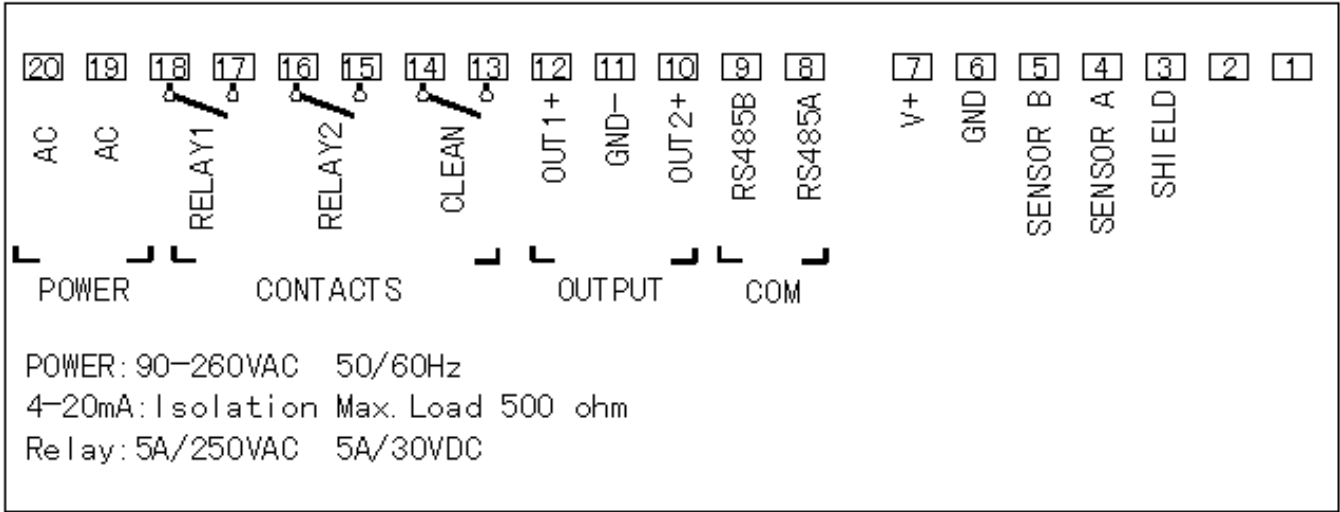
Low Turbidity Sensor



Dimensions of Medium Turbidity and Suspended Solids Sensor

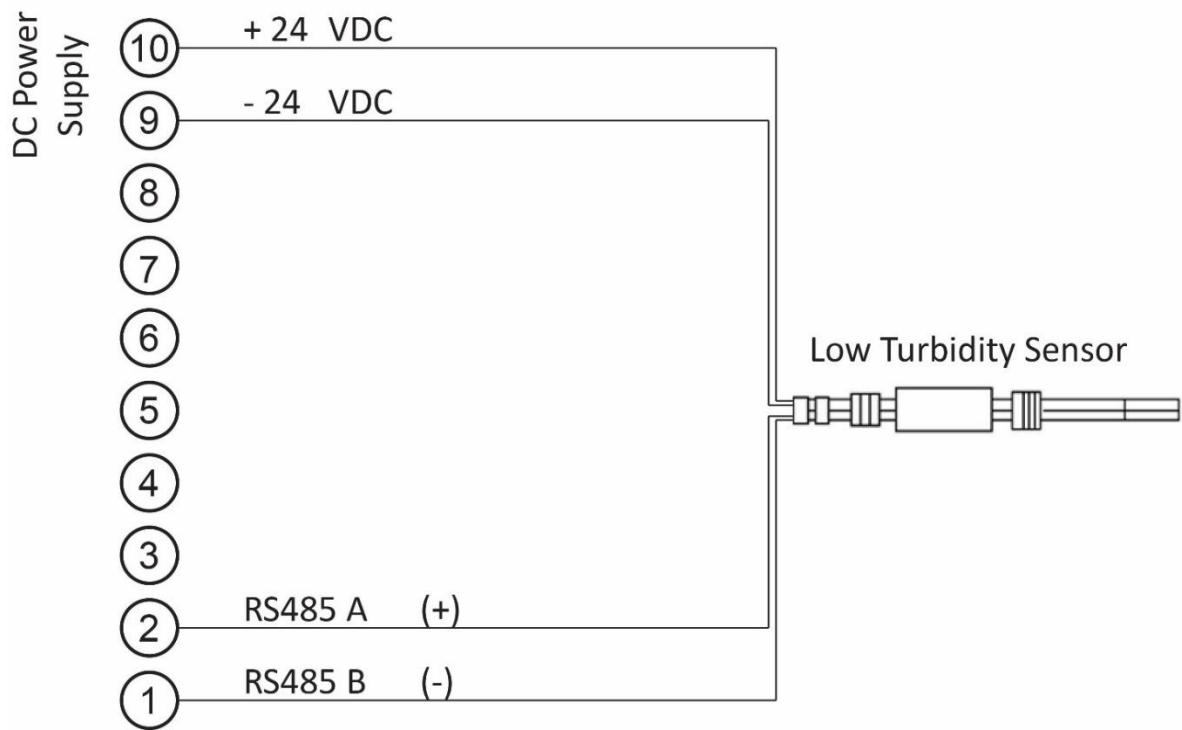
Connection label

6000 Series



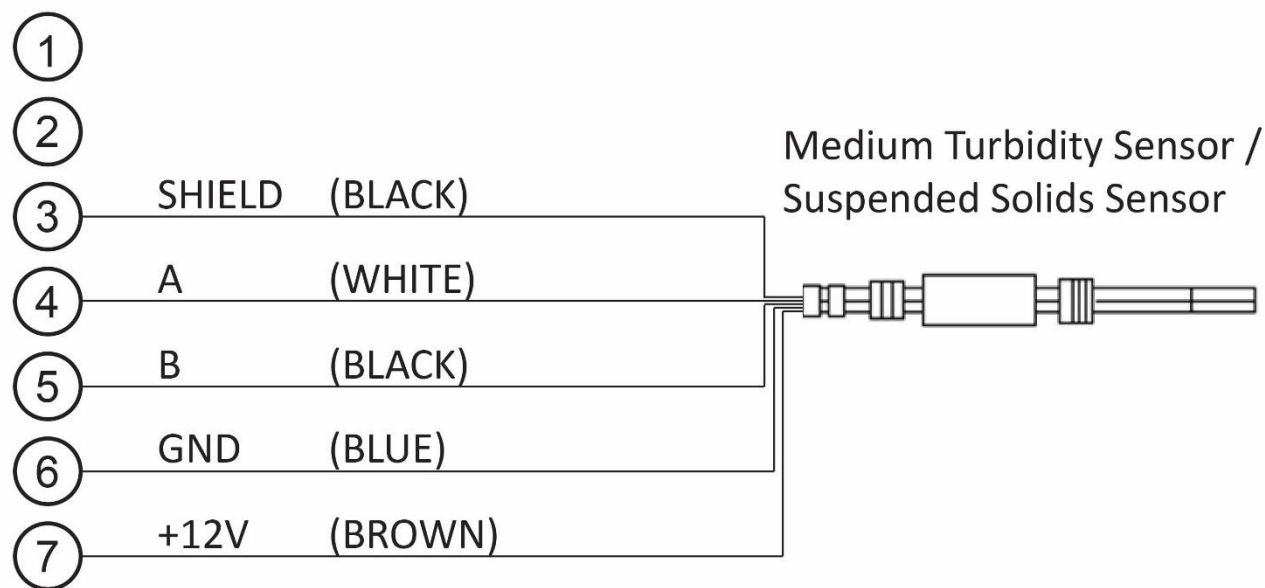
Sensor Connection Figure

Low Turbidity



Electrical Connection For Low Turbidity Sensor

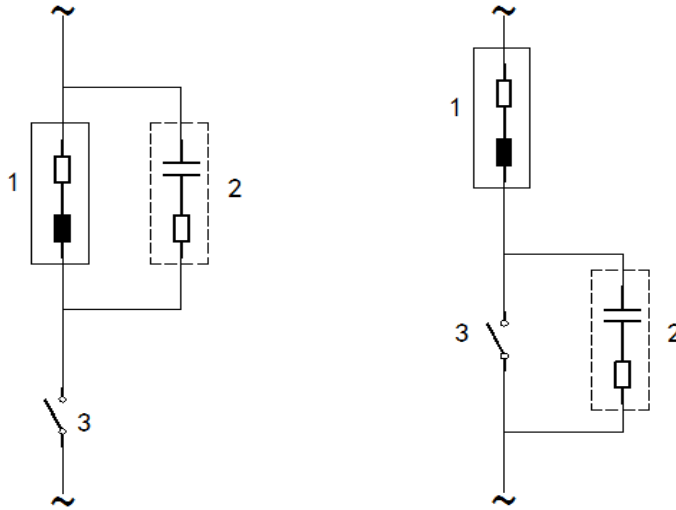
Medium Turbidity / Suspended Solids



Electrical Connection For Medium Turbidity Sensor and Suspended Solids Sensor

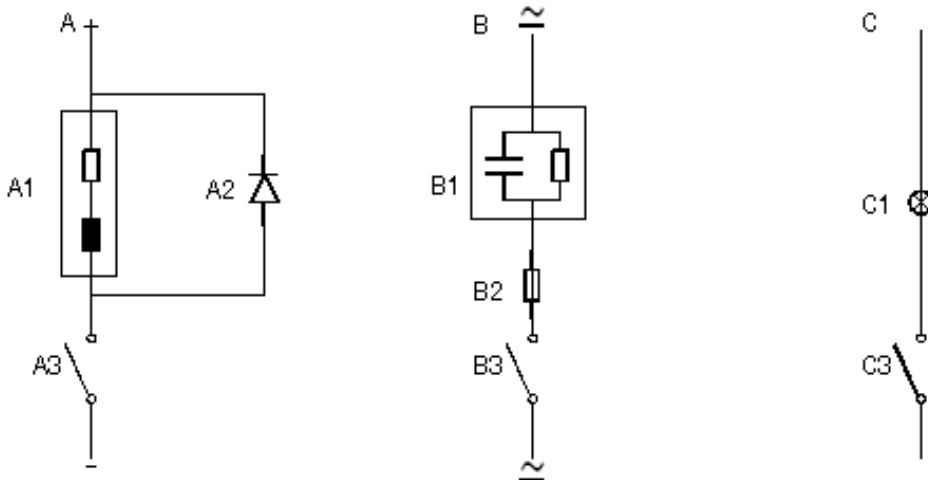
Relay Contact Protection

Electrical spark at the relay contact may affect the life of the relay, especially in an inductive and capacitive load. In order to inhibit the spark and arc, user should use an RC circuit to extend the life of the relay.



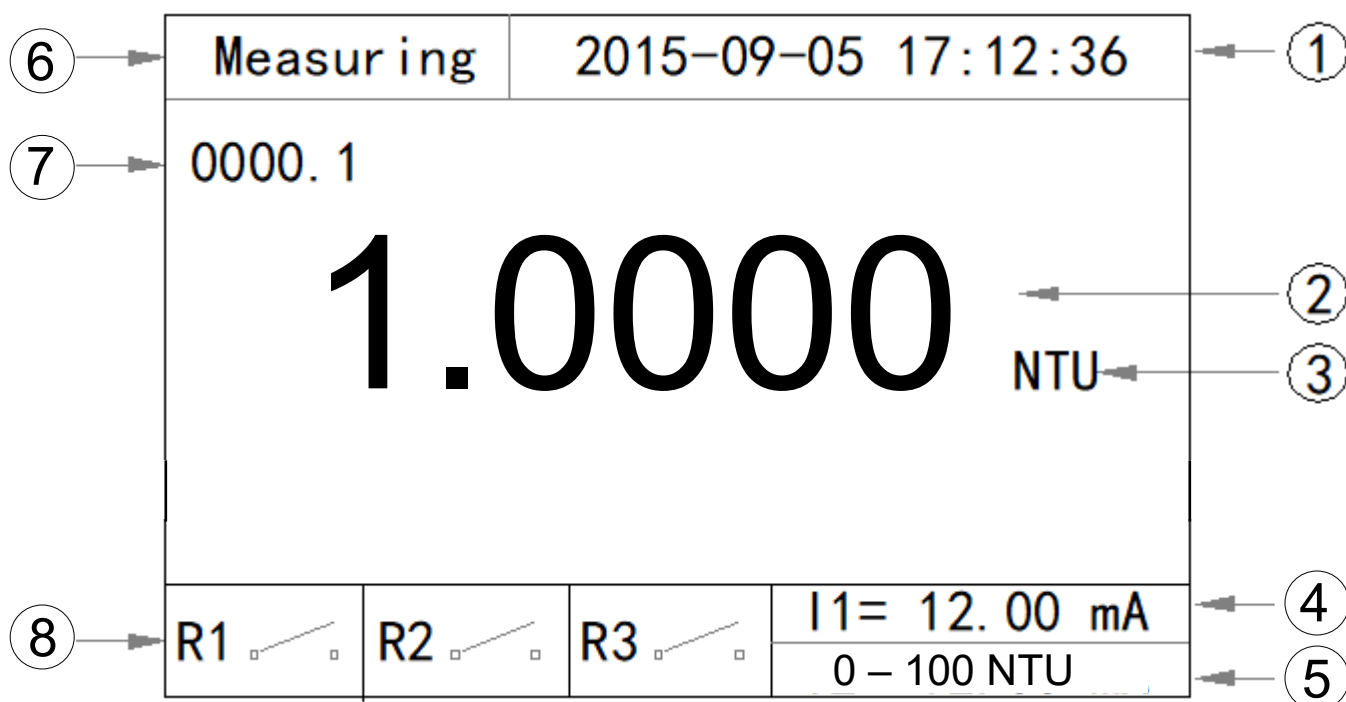
AC protection, use for inductive load

1. Load
2. RC eliminate spark, using in 220VAC, $R=100\ \Omega$ 1W,
3. Relay contact



- A. DC protection ,A1: inductive load A2: 1N4007, A3: relay contact
- B. AC/DC protection ,B1: capacitive load ,B2: $0.8\ \Omega$ /1W (DC24V, B3: relay contact
- C. Resistive load ,C1: lamp bulb ,C3: relay contact.

Display



1. Date and Time.
2. Main Measurement Display.
3. Unit of Measurement.
4. Current 1.
5. The selected measurement range;
 - a) **Low Turbidity** = 0 – 2 NTU / 0 – 5 NTU / 0 – 20 NTU / 0 – 100 NTU
 - b) **Medium Turbidity** = 0 – 1000 NTU
 - c) **Suspended Solids** = 0 – 50000 mg/l
6. Measurement status and Error indicator, there is no display if meter is in Keeping mode.
7. Count down timer: Cycle time/Clean time, it also displays the “delay” when Relay 3 has its delay enabled.
8. Relay indicator.

Key



MODE



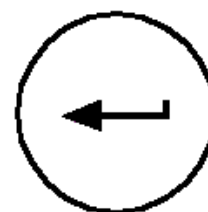
SHIFT



UP



DOWN



ENTER

Mode Key name	Measurement	Configuration	Calibration	Record Query
MODE	Enter password	Exit	Exit	Exit
SHIFT	None	Move digit	Mode digit	Mode digit
UP	Enter record	Inc	Inc	Inc
DOWN	None	Dec	Dec	Dec
ENTER	ON/OFF back light	Enter	Enter	Enter

Keeping Mode

Keeping mode is a safe mode. It is for Setting, Record and Clean. In this mode all the relays are deenergized (inactive), current output follows the setting by user (last current or fixed current).

The instrument will enter Keeping mode when user presses into Setting, Record or the instrument works in Clean mode.

It will be in Keeping mode around 10 seconds when entering the Measurement mode from the above mentioned 4 mode then left keeping mode.

The instrument will go into the keeping mode when turn on the power.

Current Output in Keeping mode:

User has two choices: fixed current output or last current output.

Fixed current : User can set the output current from 4.00 to 20.00mA when instrument goes into Keeping mode.

Last current : User can set the output current keep at the last current when instrument goes into Keeping mode.

Relays in Keeping mode: All relays are deenergized. (inactive)

Setting

Press MODE key to enter the password menu and then press UP/DOWN/SHIFT key to input password 1200 then press ENTER will enter to setting mode or press MODE key to exit. If no key is be pressed and over 10 minutes then it will go back to measurement mode.

PASSWORD
0 0 0 0

PASSWORD
1 2 0 0

Main Display

Press UP/DOWN key to choose functions, press ENTER key enter the function.

CONF I GURATION
■ Current1 Settings ☐ Current2 Settings ☐ Relay1 Settings ☐ Relay2 Settings ☐ Relay3 Settings ☐ Measurement Settings ☐ Temperature Settings ☐ RS485 Settings

Page1

CONF I GURATION
■ Date Settings ☐ Data Log Settings ☐ Output Test ☐ Language Settings ☐ Reset Parameters

Page2

Notices:

- 1. When the input data is not in correct range then it will display ERROR on the top of LCD
- 2. After input data user needs to press ENTER to save the data.
- 3. Press MODE to exit.
- 4. No key is be pressed in 10 minutes then it will go back to measurement mode.

Current 1 Settings

Low Turbidity

CURRENT 1 SETTINGS			
4.00 mA	=	0 0 . 0 0 0	NTU
20.00 mA	=	1 0 0 . 0 0 0	NTU
Offset	=	+ 0 . 0 0	mA
Filter Time	=	0 0 0	SEC
HOLD type	=	☐ Fixed	
		0 4 . 0 0	mA
		☐ Last	

Medium Turbidity

CURRENT 1 SETTINGS			
4.00 mA	=	0 0 0 . 0 0	NTU
20.00 mA	=	1 0 0 0 . 0 0	NTU
Offset	=	+ 0 . 0 0	mA
Filter Time	=	0 0 0	SEC
HOLD type	=	☐ Fixed	
		0 4 . 0 0	mA
		☐ Last	

Suspended Solids

CURRENT 1 SETTINGS			
4.00 mA	=	0 0 0 0 0	mg/l
20.00 mA	=	5 0 0 0 0	mg/l
Offset	=	+ 0 . 0 0	mA
Filter Time	=	0 0 0	SEC
HOLD type	=	☐ Fixed	
		0 4 . 0 0	mA
		☐ Last	

1. Set the corresponding **4.00mA**.
2. Set the corresponding **20.00mA**.
3. The difference between **4.00mA** and **20.00mA** are at least:
 - a) **Low Turbidity** : 1.000 NTU
 - b) **Medium Turbidity** : 10.00 NTU
 - c) **Suspended Solids** : 500 mg/l
4. Set the **Offset** for Current 1, the range is ± 1.00 mA.
5. **Filter Time:**
The range is 0-120 seconds, the low pass filter of software will active when the current from one point to another point if user sets the filter time.
5. **HOLD type:**
Set the Current 1 output mode (Fixed / Last) when instrument enters Keeping mode.

Relay 1 settings

Low Turbidity

REALY 1 SETTINGS	
ON/OFF	= ☒ ON = ☐ OFF
Close S. P.	= 1 0 0 . 0 0 0 NTU
Open S. P.	= 0 5 0 . 0 0 0 NTU
Delay Time	= 0 0 0 SEC

Medium Turbidity

REALY 1 SETTINGS	
ON/OFF	= ☒ ON = ☐ OFF
Close S. P.	= 1 0 0 0 . 0 0 NTU
Open S. P.	= 0 5 0 0 . 0 0 NTU
Delay Time	= 0 0 0 SEC

Suspended Solids

REALY 1 SETTINGS	
ON/OFF	= ☒ ON = ☐ OFF
Close S. P.	= 1 0 0 0 0 mg/l
Open S. P.	= 0 5 0 0 0 mg/l
Delay Time	= 0 0 0 SEC

1. Press UP/DOWN key to ON/OFF (enable/disable) Relay 1.
2. **Close Set Point:**
Point where relay is energized.
3. **Open Set Point:**
Point where relay is deenergized.
4. **Delay Time:**
The range is 0-120 seconds. Relay needs to delay first before being energized when the measuring data reaches the Close Set Point.

Ex: If user wants to turn on the pump at 80.00 NTU and turn off at 20.00 NTU, then the close S.P. needs to set to 80.00 NTU, Open S.P. sets to 20.00 NTU.

Relay 2 settings

Low Turbidity

REALY 2 SETTINGS	
ON/OFF	= ☒ ON = ☐ OFF
Close S. P.	= 1 0 0 . 0 0 0 NTU
Open S. P.	= 0 5 0 . 0 0 0 NTU
Delay Time	= 0 0 0 SEC

Medium Turbidity

REALY 2 SETTINGS	
ON/OFF	= ☒ ON = ☐ OFF
Close S. P.	= 1 0 0 0 . 0 0 NTU
Open S. P.	= 0 5 0 0 . 0 0 NTU
Delay Time	= 0 0 0 SEC

Suspended Solids

REALY 2 SETTINGS	
ON/OFF	= ☒ ON = ☐ OFF
Close S. P.	= 1 0 0 0 0 mg/l
Open S. P.	= 0 5 0 0 0 mg/l
Delay Time	= 0 0 0 SEC

1. Press UP/DOWN key to ON/OFF (enable/disable) Relay 2.
2. **Close set point:**
Point where relay is energized.
3. **Open set point:**
Point where relay is deenergized.
4. **Delay Time:**
The range is 0-120 seconds. Relay needs to delay first before being energized when the measuring data reaches the Close Set Point.

Ex: If user wants to turn on the pump at 20.00 NTU and turn off at 80.00 NTU, then the close S.P. needs to set to 20.00 NTU, Open S.P. sets to 80.00 NTU.

Relay 3 settings

RELAY 3 SETTINGS	
ON/OFF	= ☒ ON = ☐ OFF
Period Time	= 0 0 0 1 . 0 HOUR
Clean Time	= 0 0 1 0 SEC
Delay Time	= 0 0 0 SEC
Function	= ☐ Rinsing ☐ Interval Alarm ☐ Error Alarm

1. Press UP/DOWN key to ON/OFF (enable/disable) Relay 3.
2. **Period Time:**
The period for Rinsing or Interval function.
3. **Clean Time:**
When period is timeout, the relay energizes.
4. **Delay Time:**
The range is 0-120 seconds. Relay needs to delay first before being energized until the period is timeout.

Function: press UP/DOWN key to choose Rinsing/Interval/Error.

Notice:

1. Rinsing : When period timeout then Clean Relay will active, when clean time is timeout the repeat count for the period.
2. Interval alarm : When period timeout then clean-relay active until user resets the interval then the clean-relay inactive and repeat count for the period.
3. Error alarm : The clean-relay active when there is a error produce. No delay times function in this mode.

Measurement settings

Low Turbidity

MEASUREMENT SETTINGS	
Wiper	= ☒ 0-2 ☐ 0-5 ☐ 0-20 ☐ 0-100
Offset	= +0.0000
Span Factor	= 1.00
Filter	= ☐ YES ☐ NO

Medium Turbidity

MEASUREMENT SETTINGS	
Wiper	= ☒ Stop ☐ 15 minutes ☐ 30 minutes ☐ 60 minutes
Offset	= +00.00
Span Factor	= 1.00
Filter	= ☐ YES ☐ NO

Suspended Solids

MEASUREMENT SETTINGS	
Wiper	= ☒ Stop ☐ 15 minutes ☐ 30 minutes ☐ 60 minutes
Offset	= +000
Span Factor	= 1.00
Filter	= ☐ YES ☐ NO

1. Choose the mode for measuring, press UP/DOWN key to choose.
2. For **Offset**, the ranges for:
 - a) **Low Turbidity**
= ± 0.0463 NTU
 - b) **Medium Turbidity**
= ± 10.00 NTU
 - c) **Suspended Solids**
= ± 100 mg/l
3. For **Span Factor**, the range is up to ± 2.99 .

RS485 settings

RS485 SETTINGS	
ID Address	= 001
Baudrate	= ☐ 9600 ☐ 19200 ☐ 38400

1. ID address:1-255.
2. Baud rate , press UP/DOWN key to choose.

Date settings

DATE SETTINGS	
Year	= 2 0 1 5
Month	= 0 8
Day	= 1 5
Hour	= 1 3
Minute	= 3 6
Second	= 0 4

Press UP/DOWN key to set the date. When power off the date will be kept for around 2 days.

Data log settings

DATA LOG SETTINGS	
ON/OFF	= ☒ ON ☐ OFF
Display Type	= ☐ Record ☐ XY Chart
Reset Record	= ☐ Yes ☐ No
Save Period	= 0 6 0 SEC

1. Press UP/DOWN key to ON/OFF (enable/disable) this function.
2. Display type, press UP/DOWN key to choose
3. Erase all the records.
4. Saving period from 5 to 120 second.

Notice:

1. When user chooses ON, then it will save measuring data follow the Save period time.
2. Display type: Record, display the detail of record(5 records in one page), XY chart, display a chart.(150 records in one page)
3. When reset the records, it will spend around 10 seconds.

Output test

OUTPUT TEST	
Current1	= 0 4 . 0 0 mA
Current2	= 0 4 . 0 0 mA
Relay1	= ☐ CLOSE ☐ OPEN
Relay2	= ☐ CLOSE ☐ OPEN
Relay3	= ☐ CLOSE ☐ OPEN

1. Current 1 output: 4.00-20.00mA, press UP/DOWN to set.
2. Current 2 output: 4.00-20.00mA, press UP/DOWN to set.
3. Relay 1 output, press UP/DOWN to choose.
4. Relay 2 output, press UP/DOWN to choose.
5. Relay 3 output, press UP/DOWN to choose.

Notice: This function for testing the output only.

Language Settings

LANGUAGE SETTINGS	
Language	☒ English ☐ 繁體中文 ☐ 简体中文

Press UP/DOWN key to choose the language.

Reset Parameters

RESET PARAMETERS	
Reset Type	☒ Current ☐ Relay1 ☐ Relay2 ☐ Relay3 ☐ All

Press UP/DOWN key to choose the reset.

Notice: The reset will not affect the calibrated parameters.

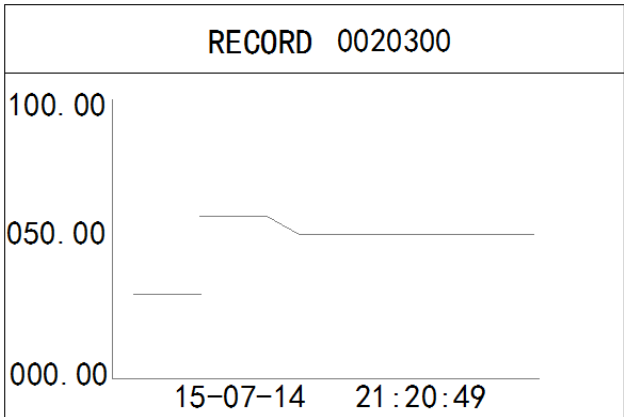
Record Query

Press UP key at the Measurement mode to enter Record Query mode.

INPUT RECORD START NUMBER
0 1 0 3 0 0

Press UP/DOWN and SHIFT key to input record number then press ENTER key enter or press MODE key exit.

RECORD 0020300		
15-08-14	080.74	NTU
21:20:49	025.0	°C
15-08-14	080.75	NTU
21:20:59	025.0	°C
15-08-14	080.74	NTU
21:21:09	025.0	°C
15-08-14	080.74	NTU
21:21:19	025.0	°C
15-08-14	080.74	NTU
21:21:29	025.0	°C



Default

Low NTU 20.00mA corresponding	2.0000 NTU	range: 0.2000 – 2.0000
	5.0000 NTU	range: 0.5000 – 5.0000
	20.000 NTU	range: 2.000 – 20.000
	100.00 NTU	range: 1.000 – 100.00
Low NTU 4.00mA corresponding	0 NTU	range: 0.0000 – 1.8000
	0 NTU	range: 0.0000 – 1.5000
	0 NTU	range: 0.000 – 18.000
	0 NTU	range: 0.000 – 99.000
	Differences :	
	0.0000 - 2.0000 NTU : 0.20000	
	0.0000 - 5.0000 NTU : 0.5000	
	0.000 - 20.000 NTU : 2.000	
	0.000 - 100.00 NTU : 1.000	
Med NTU 20.00mA corresponding	1000 NTU	range: 10.00 – 1000
Med NTU 4.00mA corresponding	0.00 NTU	range: 0.00 – 990.0
	Differences	range: 10.00
mg/l 20.00mA corresponding	50000 mg/l	range: 500 – 50000
mg/l 4.00mA corresponding	00000 mg/l	range: 0 – 49500
	Differences	range: 500 mg/l
Current 1 output offset	0.00 mA	range: +/- 1.00
Current 1 filter	0 second	range: 0 - 120
Current 1 fixed output	4.00 mA	range: 4.00 - 20.00
Current 1 HOLD type	last	range: fixed/last
Relay 1 Low NTU close S.P.	2.0000 NTU	range: 0.0000 - 2.0000
	5.0000 NTU	range: 0.0000 - 5.0000
	20.000 NTU	range: 0.000 - 20.000
	100.000 NTU	range: 0.000 - 100.000
Relay 1 Low NTU open S.P.	1.0000 NTU	range: 0.0000 - 2.0000
	2.0000 NTU	range: 0.0000 - 5.0000
	10.000 NTU	range: 0.000 - 20.000
	50.000 NTU	range: 0.000 - 100.000
	Difference :	
	0.0001	
	0.0001	
	0.001	
	0.001	

Relay 1 Med NTU close S.P.	1000.00 NTU	range: 0.00 – 1000.00
Relay 1 Med NTU open S.P.	0.00 NTU	range: 0.00 – 1000.00
	Difference	range: 0.01
Relay 1 SS mg/l close S.P.	50000 mg/l	range: 0 – 50000 mg/l
Relay 1 SS mg/l open S.P.	0 mg/l	range: 0 – 50000 mg/l
	Difference	range: 1
Relay 1 delay time	0 second	range: 0-120
Relay 2 Low NTU close S.P.	2.0000 NTU	range: 0.0000 - 2.0000
	5.0000 NTU	range: 0.0000 - 5.0000
	20.000 NTU	range: 0.000 - 20.000
	100.000 NTU	range: 0.000 - 100.000
	1.0000 NTU	range: 0.0000 - 2.0000
	2.0000 NTU	range: 0.0000 - 5.0000
	10.000 NTU	range: 0.000 - 20.000
	50.000 NTU	range: 0.000 - 100.000
	Difference :	
	0.0001	
Relay 2 Low NTU open S.P.	0.0001	
	0.001	
	0.001	
	1000.00 NTU	range: 0.00 – 1000.00
	0.00 NTU	range: 0.00 – 1000.00
	Difference	range: 0.01
	50000 mg/l	range: 0 – 50000 mg/l
	0 mg/l	range: 0 – 50000 mg/l
	Difference	range: 1
	0 second	range: 0-120
Relay 2 delay time	0 second	range: 0-120
Relay 3 period time	1.0 hour	range: 0 - 1000.0
Relay 3 clean time	10 second	range: 0 - 1000
Relay 3 delay time	0	range: 0 - 120
Relay 3 function	error alarm	range: clean/period alarm/ error alarm
Record period	60 second	range: 5 - 120
ID address	1	range: 1 - 255
Baud rate	9600	range: 9600,19200,38400
NTU offset	0.0 NTU	range: +/- 9.99
Mode	NTU	range: 0=NTU,1=ppm
ppm Coefficient	1.00	range:0.01 - 3.00
Temp. Offset	0.0 °C	range: +/- 5.0

Language	English	range: English/Traditional Chinese/Simple Chinese
Record type	record	range: record/XY chart

Password

Press MODE key

1100:Calibration mode

1200:Setting mode

If no key is be pressed and over 10 minutes then it will go back to measurement mode.

Error code

Error 01	memory error
Error 02	reading is over maximum
Error 03	reading is under minimum
Error 06	current 1 output is over 20.5 mA, the maximum is 22.00mA
Error 07	current 1 output is under 3.8 mA, the minimum is 3.5mA
Error 10	record error
Error 11	ADC damage
Error 99	default parameters lost

RS485 command

The instrument use the standard Mod bus-RTU protocol, all of the data are word type(2 bytes), the range is -32767~32767 ,16 system.

PC command:

	ID address	command	Start address	Data number	CRC16
length	1 byte	1byte	2 byte	2 byte	2 byte
Ex.	0x01	0x03	0x0001	0x0001	0xD5CA

Instrument response:

	ID address	command	Data number	data	CRC16
length	1 byte	1 byte	1byte	N byte	2 byte
Ex.	0x01	0x03	0x02	0x02 0xBC	0xB895

If response is 01,the command is wrong.

If response is 02,the address is not correct.

If response is 03,data number is not correct.

command 03: read the settings

command 04: read the readings

04:definition

address

(00)	0x00	NTU reading1	reading: float(0x00 & 0x01)
(01)	0x01	NTU reading2	
(02)	0x02	NTU current	reading :X 0.01
(03)	0x03	Temperature	reading :X 0.1
(04)	0x04	Temperature current	reading :X 0.01
(05)	0x05	Error code	reading :X 1
(06)	0x06		
(07)	0x07		
(08)	0x08		
(09)	0x09	Model type	fix to 8

03:definition

Address

(00)	0x00	NTU 20.00mA corresponding	reading:X0.01	
(01)	0x01	NTU 4.00mA corresponding	reading:X0.01	
(02)	0x02	Temp. 20.00mA corresponding	reading:X0.1	
(03)	0x03	Temp. 4.00mA corresponding	reading:X0.1	
(04)	0x04	Current 1 offset	reading:X0.01	
(05)	0x05	Current 2 offset	reading:X0.01	
(06)	0x06	Current 1 filter	reading:X1	
(07)	0x07	Current 2 filter	reading:X1	
(08)	0x08	Current 1 fixed current	reading:X0.01	
(09)	0x09	Current 2 fixed current	reading:X0.01	
(10)	0x0A	Current 1 HOLD type	reading:X1	0=fixed,1=last
(11)	0x0B	Current 2 HOLD type	reading:X1	0=fixed,1=last
(12)	0x0C	Relay1 NTU close S.P.	reading:X0.01	
(13)	0x0D	Relay1 NTU open S.P.	reading:X0.01	
(14)	0x0E	Relay1 delay time	reading:X1	
(15)	0x0F	Relay2 NTU close S.P.	reading:X0.01	
(16)	0x10	Relay2 NTU open S.P.	reading:X0.01	
(17)	0x11	Relay2 delay time	reading:X1	
(18)	0x12	Relay3 clean period	reading:X0.1	
(19)	0x13	Relay3 clean time	reading:X1	
(20)	0x14	Relay3 delay time	reading:X1	
(21)	0x15	Relay3 function	reading:X1	0:clean,1:period alarm

,2:Error
alarm

(22)	0x16	Record saving time	reading:X1	
(23)	0x17	Mode	reading:X1	
(24)	0x18	NTU offset	reading:X0.01	
(25)	0x19	ppm coefficient	reading:X0.01	
(26)	0x1A	Temp. offset	reading:X0.1	
(27)	0x1B	Language	reading:X1	0=English ,1=traditional Chinese,2=simple Chinese