



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Turbidity Meter

SIN-PTU200

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Datasheet**Turbidity Meter
SIN-PTU200****Turbidity Sensor**

The sensor, based on the infrared absorption scattered light method and combined with the application of ISO7027 method, can guarantee the continuous and accurate detection of turbidity. Based on ISO7027, infrared double scattering light technology will not be affected by chroma for the measurement of turbidity value. According to the usage environment, self-cleaning function can be equipped with. It assures the stability of data and reliability of performance; with the built-in self-diagnosis function, it can make sure the accurate data be delivered; besides, the installation and calibration is quite simple.

Turbidity Transmitter

The transmitter can be used to display data measured by the sensor, so the user can get the 4-20mA analog output by transmitter's interface configuration and calibration. And it can make relay control, digital communications, and other functions a reality. The product is widely used in sewage plant, water plant, water station, surface water, farming, industry and other fields.



Parameters	
Turbidity Sensor	
Size	Diameter 60mm* Length 256mm
Weight	1.65 KG
Main Materials	Main Body:SUS316L (Ordinary Version),Titanium Alloy (Seawater Version) Upper and Lower Cover: PVC; Cable: PVC
Waterproof Rate	IP68/NEMA6P
Measurement Range	0.01-100 NTU 、 0.01—4000 NTU
Indication Resolution	Less than $\pm 2\%$ of the measured value, or ± 0.1 NTU Maximax criterion
Pressure Range	≤ 0.4 Mpa
Flow velocity	≤ 2.5 m/s、 8.2 ft/s
Storage Temperature	-15~65℃
Environment Temperature	0~45℃
Calibration	Sample Calibration, Slope Calibration
Cable Length	Standard 10-Meter Cable, Max Length: 100 Meters
Warranty Period	1 Year
High Voltage Baffle	Aviation Connector, Cable Connector
Turbidity Transmitter	
Size	145*125*162mm L*W*H
Weight	1.3KG
Material of outside shell	lower casing: Aluminum with powder covering cover: PA66+GF25+FR
Waterproof Rate	IP65/NEMA4X
Storage Temperature	-20 to 70℃
Operation Temperature	-15 to 60℃
Power Supply	AC: AC220V, 50HZ, 5W DC: DC24V
Output	three-way analog output 4-20mA, response parameters and corresponding scope can be programmed Note: the maximum load is 500 ohms
Relay	three-way relay can be set up, and response parameters and response values can be programmed
Display Output	MODBUS RS485 communication function, which can transmit real-time measurements
Warranty Period	1 year

Wiring

Figure 1 is the preview of internal wiring of the transmitter. Table 1 is the wiring signal of the transmitter.

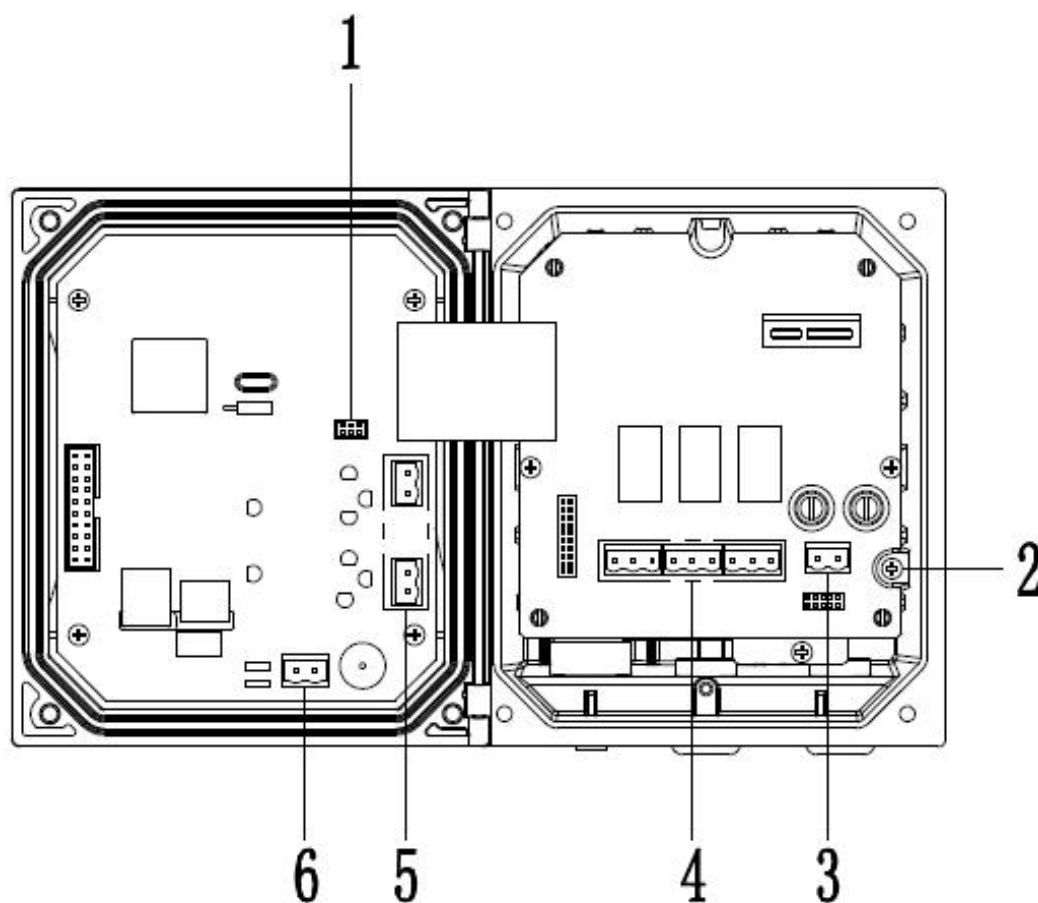


Figure 1 Preview of the Wiring

Table 1 Wiring Signal of the Transmitter

1- sensor interface	2- grounding
3- power supply interface	4- three-way relay
5- 4-20mA two-way interface	6- 485 communication interface

The transmitter can use AC220V power supply. Please operate in strict accordance with the wiring instructions.

For the sake of safety and relevant electrical specification, there should be a local disconnect design, and it shall be suitable for all installation types. The connection mode of the power cord is shown as figure 2.

To ensure the safety in use, please be sure to be grounded.

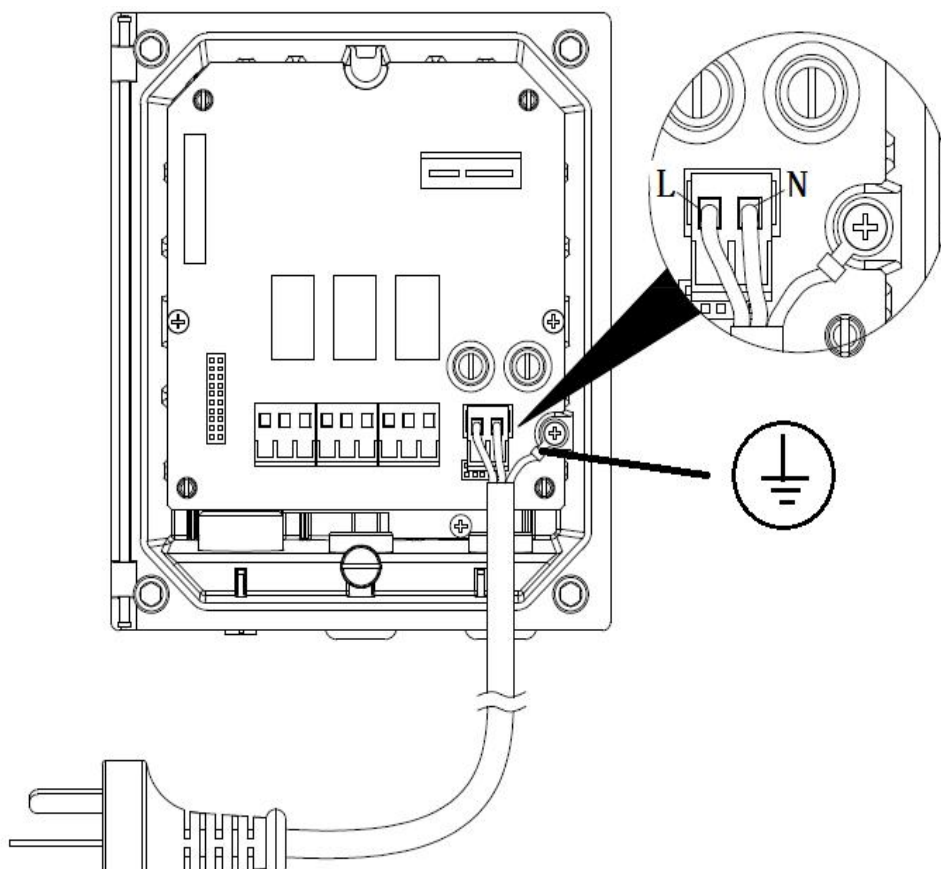


Figure 2 Power Supply Wiring

The transmitter is equipped with three-way relay, and the main measurements or temperature response can be set up. Each relay can be configured individually for timing or alarming, moreover the relay switch and relay response values can also be set. Please be sure to disconnect the power supply, while wiring. The connection mode of the relay is shown as figure 3.

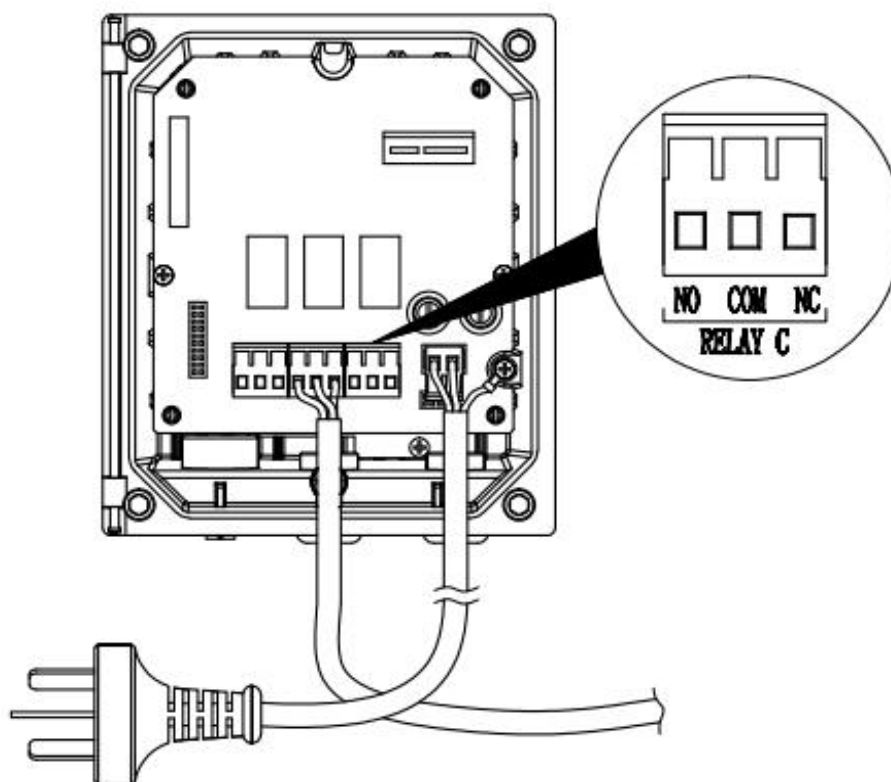
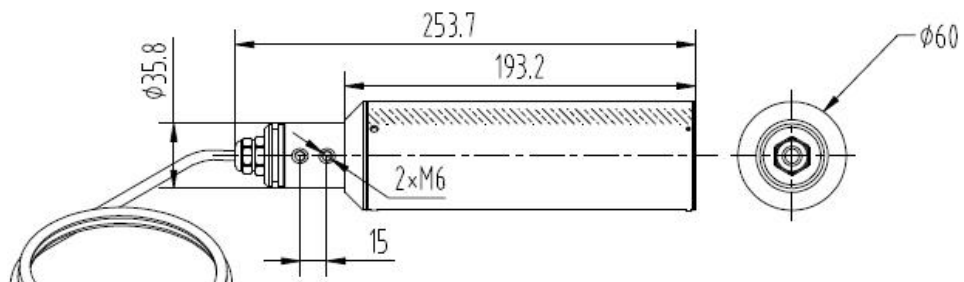


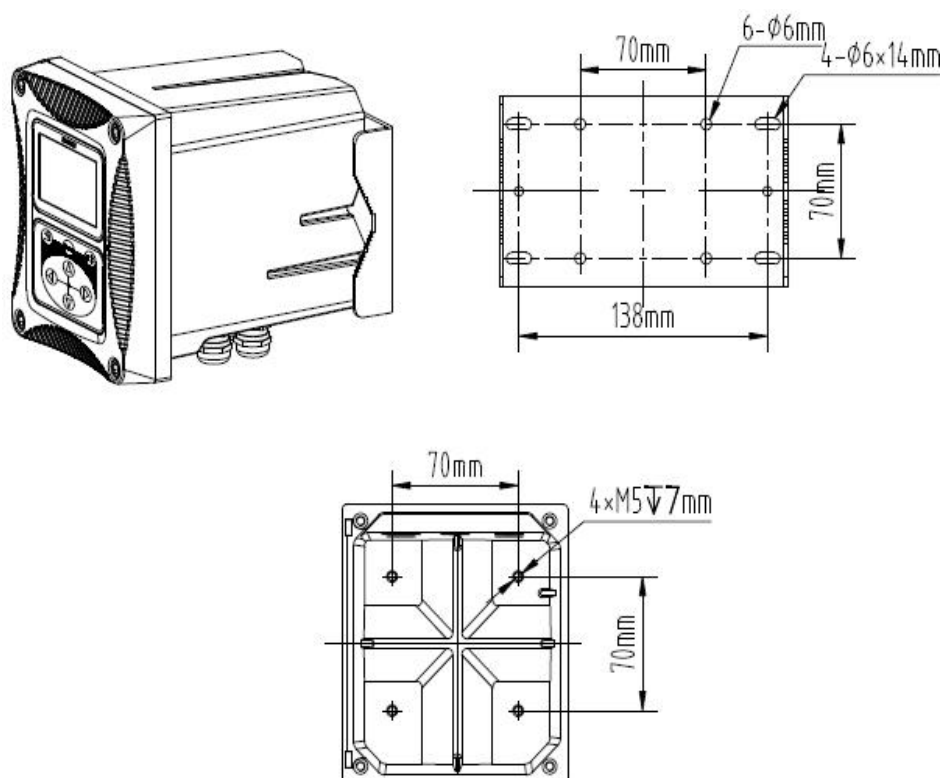
Figure 3 Relay Wiring

Dimension

Turbidity Sensor



Turbidity Transmitter



Ordering code

SIN-PTU200-1-E-6-2-C						Description
SIN-PTU200	-	-	-	-	-	
Input Channel	1					
	2					
Output		E				
Alarm Output		6				
Electrical Interface				2		
Power Supply					C	24VDC
					E	220VAC