

## PCTD02 Turbidity/TSS/MLSS Controller



This Turbidity/TSS/MLSS controller is a smart online chemical analyzer, widely used in Thermal power, chemical fertilizer, metallurgy, environmental protection, pharmaceutical, biochemical, food, tap water and other industries. The Turbidity 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.

The Turbidity 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.

**Caution:** Please read this manual completely before opening the package, installing or using. Otherwise it may cause personal injury to the operator, or cause damage to equipment.

## Technical indicators of the turbidity sensor

Specification	Details
Size	Diameter 60mm* Length 256mm
Weight	1..65KG
Material	Main Body:SUS316L (Ordinary Version),Titanium Alloy (Seawater Version) Upper and Lower Cover: PVC; Cable: PVC
Waterproof Rate	IP68/NEMA6P
Measuring variable	Turbidity/TSS/MLSS
Measuring range	0.01-100 NTU 、 0.01—4000 NTU
Indication Resolution	<b>Less than <math>\pm 2\%</math> of the measured value, or <math>\pm 0.1</math> NTU Maximax criterion</b>
Pressure Range	$\leq 0.4$ Mpa
Flow velocity	$\leq 2.5$ m/s、 8.2ft/s
Storage Temperature	-15~65°C
Environment Temperature	0~45°C
Calibration	<b>Sample Calibration, Slope Calibration</b>
Cable Length	Standard 10-Meter Cable, Max Length: 100 Meters
Warranty Period	1 Year
High Voltage Baffle	Aviation Connector, Cable Connector

## Technical indicators of the turbidity transmitter

Size	W 145*125*162 L*W*H
Weight	1.3KG
Material	<b>lower casing: Aluminum with powder covering</b>
	<b>cover : PA66+GF25+FR</b>
Waterproof Rate	IP65/NEMA4X
Storage Temperature	-20 to 70°C
Operation Temperature	<del>15 to 60°C</del>
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	<b>three-way relay can be set up, and response parameters and response values can be programmed</b>
Display Output	128 * 64 dot matrix LCD with LED backlight, which can be operated under the direct sunlight
Digital Communication	MODBUS RS485 communication function, which can transmit real-time measurements
Warranty Period	1 year

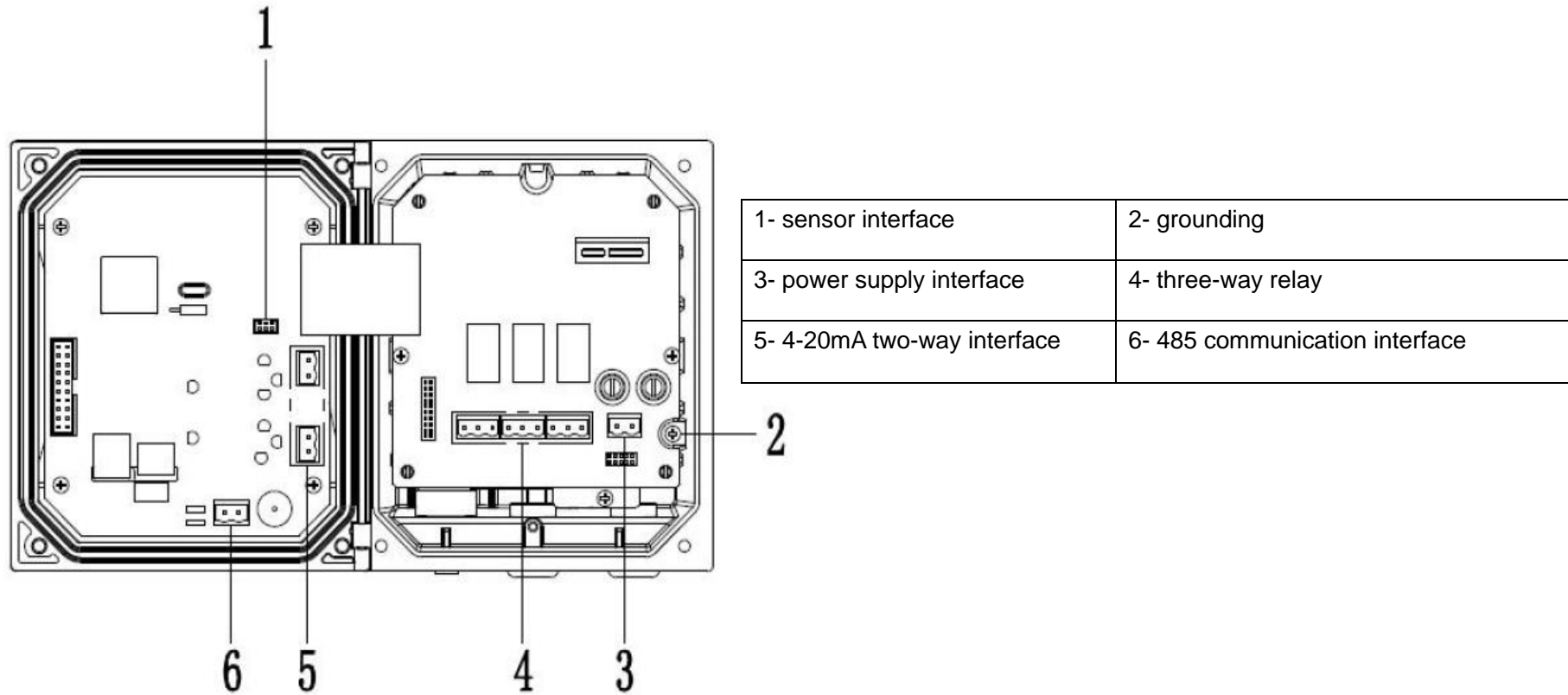


Figure 7 Preview of the Wiring

## The Main Screen

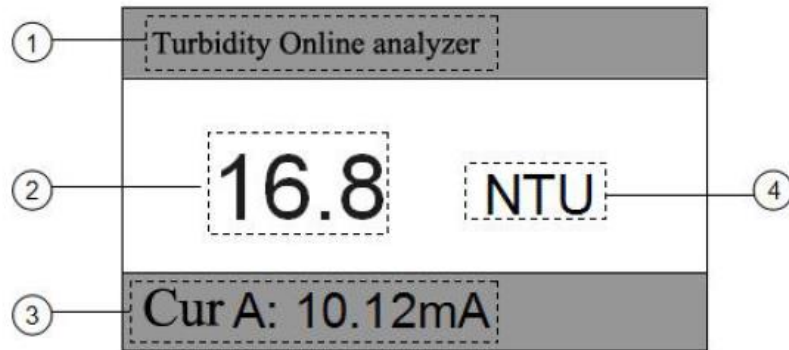


Figure 13 The Main Screen Interface

## Definition of buttons

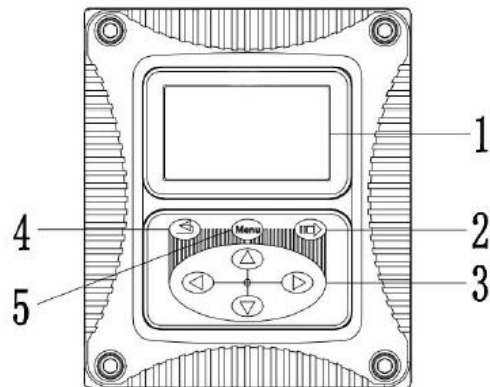


Figure 12 The User Interface

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No.	Key	Function
1	Screen	Dispaly
2	Enter key	Enter the next menu or accept typed value
3	Guide key	Browse the menu, change the settings, and add or reduce digits
4	Esc key	Return to previous menu
5	Menu key	Go to the main menu

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