



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Turbidity Sensor

SUP-PSS9010

Supmea[®]

Committed to process automation solutions

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Datasheet**Turbidity sensor
SUP-PSS9010**

SUP-PSS9010 is based on the method of combination of infrared absorption scattered light. Infrared light which the photosource sends out scattered by suspended particles in the sample. And finally converted to electrical signals by photoelectric detector and getting the suspended solids concentration of the sample after treatment by analog and digital signals.

The product is widely used in sewage plant, water plant, water station, surface water, farming, industry and other fields

Applications

- Water Plant
- Water Station
- Surface Water
- Farming
- Industry

Features

- Self-developed optical path and receiving structure,
- Real-time Compensation Algorithm
- Long-term stable online monitoring
- Comes with cleaning brush
- High accuracy turbidity measurement

**Turbidity sensor SUP-PSS9010****Principle**

infrared absorption scattered light method

Parameters	
Measurement Range	20~30000 mg/L
Measurement Accuracy	± 10% of the measured value (depending on sludge homogeneity) or 10 mg/L, whichever is greater
Repeatability	±3%
Resolution Ratio	0.1mg/L, 1mg/L, It depends on different ranges
Pressure Range	≤0.2Mpa
Flow velocity	≤2.5m/s、 8.2ft/s
Material	Main Body: SUS316L Upper and Lower Cover: PPS+glass fiber Cable: PUR
Power Supply	9~36VDC
Communication Protocol	MODBUS RS485
Operating Temperature	0~45℃ (not freeze)
Weight	0.8KG
Level of Protection	IP68/NEMA6P
Cable Length	Standard 10-Meter Cable, Max Length: 100 Meters

Wiring

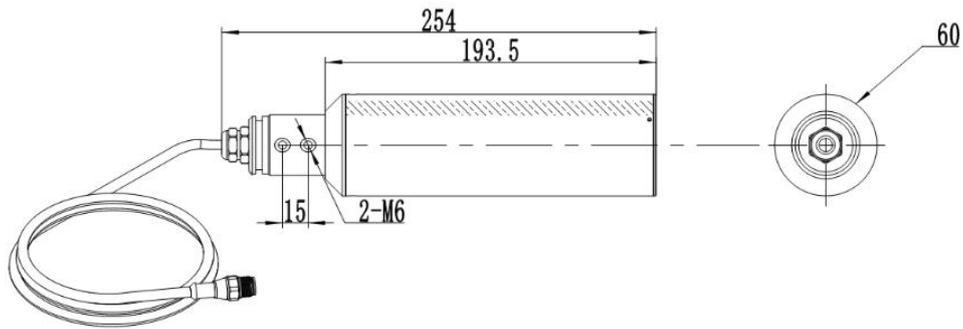
The sensor is properly connected with the following core definitions:

No.	Color	Wiring definition
1	Brown	+12VDC
2	Black	AGND
3	Blue	RS485 A

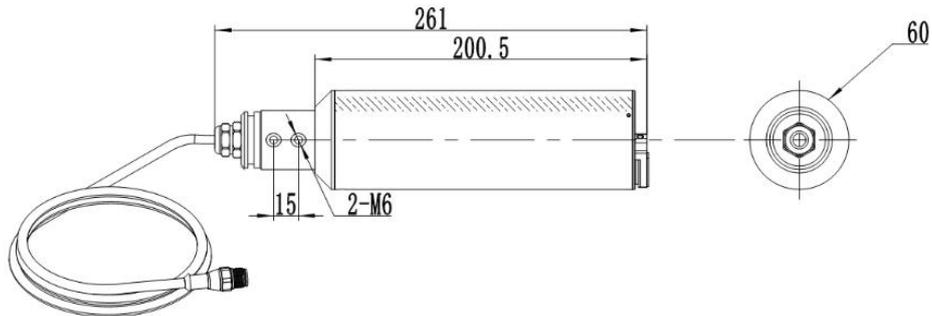
4	White	RS485 B
5	Yellow + Green	Ground lead

Dimension**SUS316L/Titanium Alloy External Dimension:**

No automatic cleaning device:

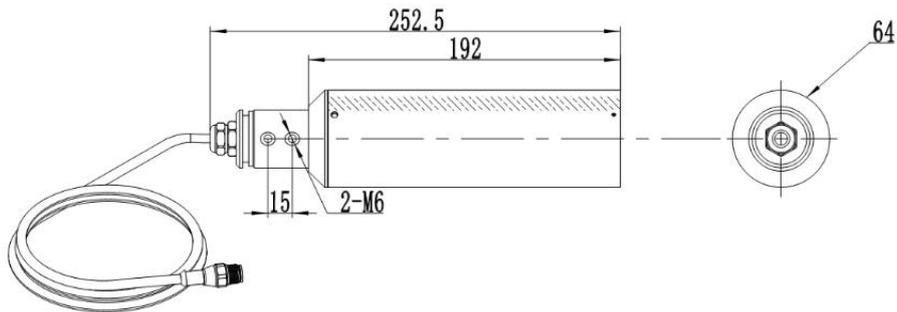


With automatic cleaning device:

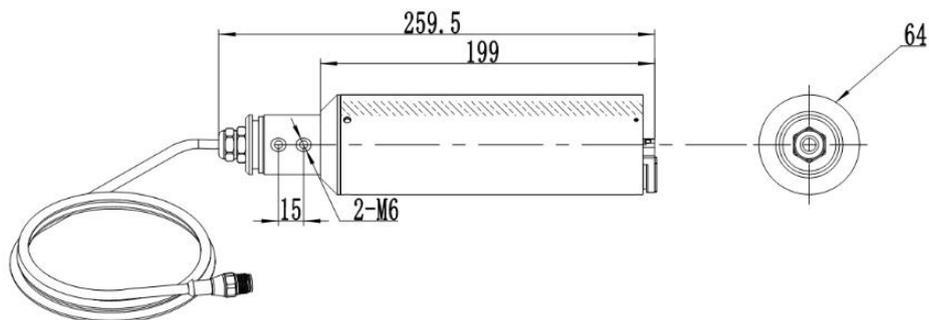


PVC External Dimension:

No automatic cleaning device:



With automatic cleaning device:



Ordering code

SUP-PSS9010-WH-M3-0-10										Description	
SUP-PSS9010	-	-	-	-	-	-	-	-	-	-	Temperature range: (0~45)°C
Model	PSS9010										Pressure resistance: 0.2MPa
Measuring range	WH										0.1-50g/L
	XX										Other
Scraper		0									Without
		1									With
Output			A								RS485
Power supply				B							12VDC
											10m
Cable length											20m
											30m
											XX
											Other(<=100m)
Cable connector										ZY	Direct Leads
										HK	Aviation Plug (PSS200 sludge meter only)
Shell material										M3	316LSS
										T1	Titanium Ti