

Turbidity Meter TBM 5.0

Committed to process automation solutions

Datasheet



TBM 5.0 online turbidity / MLSS concentration analyzer is an intelligent online chemical analyzer, which is widely used for continuous monitoring of turbidity, MLSS concentration and temperature in such solutions as thermal power, chemical, fertilizer, metallurgical, environmental protection, pharmaceutical, biochemical solutions, food, and tap water.

Remote transmission monitoring and recording of continuous monitoring data is realized through the transmitting output connection recorder, and the monitoring and recording can also be realized by connecting the RS485 interface which can easily link it to computer through MODBUS - RTU protocol.

Technical Specification

Turbidity transmitter

Performance:

- Measurement: Turbidity, MLSS concentration
- Measuring range: 0.00 - 4000NTU, 0.00-120000mg/L
- Maximum loop resistance: 750 Ω
- Accuracy: 0.1%FS

Output Signal:

- Type of output: 4 - 20mA current transmitting output
- Type of output: RS485 digital signal output
- Communication protocol:
Standard MODBUS – RTU (Customizable)
- Alarm relay: AC250V, 3A

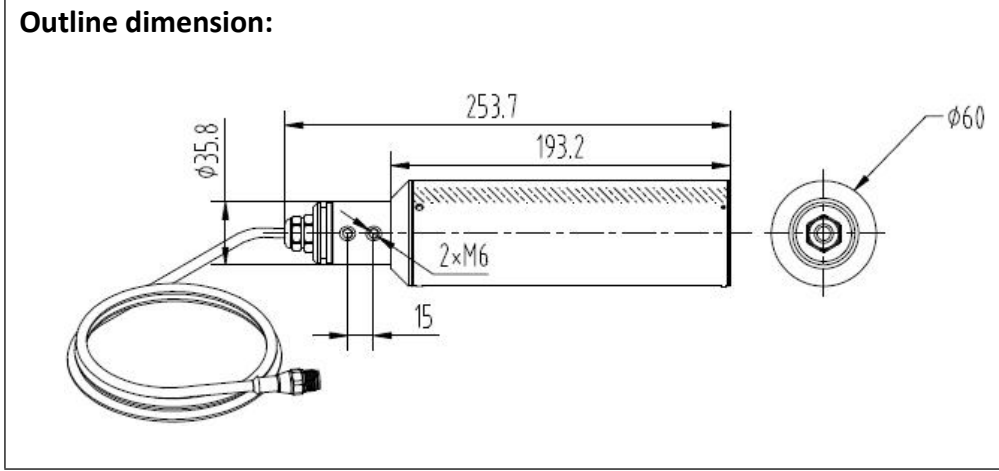
Other:

- Panel Front Size (mm) : 100(W) x 100(H) x Approx.150(D)
- Panel Cutout Size (mm): 92.5(W) x 92.5(H)
- Converter weight : Approx. 1 kg
- Display: LCD with back lights in English
- Color: Black
- Ambient temperature : -20 to +55°C (-5 - 130 °F).
- Storage temperature : -30 to +70°C (-20 - 160 °F).
- Humidity : 10 to 90% RH at 40°C (100 °F)

Turbidity sensor

Specification	Detailed Information
Size	D 60mm, L 256mm
Weight	1.65KG
Material	Body: PVC
	O-ring: Fluorine rubber
	Cable: PVC
Waterproof grade	IP68/NEMA6P
Measuring range	Turbidity:0.00 - 4000NTU/ MLSS concentration: 0.1 - 20000 mg/L, 0.1 - 45000mg/L, 0.1 - 120000 mg/L
Display accuracy	Turbidity: Less than $\pm 2\%$ of the measured value or ± 0.1 NTU, whichever is larger / MLSS concentration: less than $\pm 5\%$ of the measured value (depending on the homogeneity of the MLSS)
Velocity of flow	≤ 2.5 m/s, 8.2ft/s
Pressure range	≤ 0.4 Mpa
Storage temperature	-15 - 65°C
Ambient temperature for measurement	0 - 45°C
Calibration	Calibration of sample, slope calibration
Cable length	10m standard cable, can be extended up to 100m





Features

- Using 2.8 inch 128*64 lattice screen
- Using isolated transmitting output, which has less interference
- Using isolated RS485 communication
- TUR/TLSS measurement, upper and lower limit control, transmitting output and RS485 communication can be made
- High and low alarm functions and retardation can be set
- The buzzer and LCD backlight switch on and off function
- Operation language selectable, English or Chinese
- Correction and calibration of are available