PGZ-800 Portable Turbidimeter



Measurement Principle

The working principle of the PGZ-800 portable turbidity meter is to emit a beam of light to the sample, and then its built-in detector will measure the intensity of the scattered light caused by turbidity in the sample, which is at a 90° angle to the incident light. Since the intensity of the scattered light is proportional to the turbidity concentration in the water sample, it can more accurately measure the turbidity content in the sample.

Features

- Dual light sources, one instrument can easily switch between ISO/EPA methods through software control; and the design complies with EPA 180.1 and ISO 7027 standards;
- Standard five-point long-term turbidity calibration standard solution;
- With IP66 protection level and good waterproof and dustproof performance;
- Support NTU, FTU, EBC multi-unit switching;
- Built-in water quality turbidity curve, users can use it directly. Support 2-5 point calibration, restore factory calibration and other data calibration methods;
- Standard long-life light source;
- Support lithium battery power supply, standard large battery capacity 5200mAh;
- Standard measurement and continuous measurement modes. It has standard single measurement function, and also supports continuous measurement and stores data according to the set storage time interval;
- Built-in clock memory storage system, supports storage of measurement and correction data;
- Built-in large-capacity memory card, which can store and call more than 10 million groups of measurement data for a long time.

Applications

- Purified water plants, water plants, domestic sewage treatment plants;
- Environmental protection departments, industrial water, pharmaceutical industry, epidemic prevention departments, hospitals, etc.

Technical Specifications

Item	Description
Measurement principle	90° diffuse light
Dual light source	ISO/EPA methods can be implemented on the same instrument through software control; designed to meet EPA 180.1 and ISO 7027 standards
Range	0～1000 NTU
Resolution	0.001-0.1NTU
Repeatability	≤2%
Indication error	±5% or ±0.1NTU, whichever is greater
Zero drift	±0.05%F.S

Calibration standard	Supports up to 5-point standard liquid calibration
Unit mode	Factory setting: NTU. Can be switched to FTU, EBC, etc.
Data recording	Long-term storage and call of more than 10 million sets of measurement data
Material	ABS+PC
Storage temperature	-15～60℃；
Ambient humidity	0-90% (non-condensing)
Working temperature	1～45℃
Working power supply	Built-in rechargeable lithium battery, large capacity 5200mAh
Working conditions	The instrument should be placed horizontally on a stable laboratory table, effectively avoiding direct sunlight; there should be enough space around the instrument to facilitate heat dissipation, and there should be no strong vibration source and strong magnetic field interference; there should be no obvious dust and corrosive gas in the surrounding air.
Protection level	IP66