PWQ-2000 Water Quality Monitoring System

Introduction



PWQ-2000 water quality monitoring system is a system that integrates pipe network water quality monitoring sensors, data processing units, and internal water flow pipeline units. It can continuously measure temperature, PH, turbidity, disinfectant indicators, and can extend water quality parameters such as conductivity and ORP. The disinfectant index adopts the DPD colorimetric method. The two disinfectant indexes of residual chlorine, and total chlorine are optional. The cuvette has an automatic cleaning function, which greatly reduces the amount of maintenance and improves the stability of the measurement data. Need to purchase reagents locally. The turbidity adopts the 90 ° scattered light technology of EPA principle, adopts LED light source, low power consumption and long life of light source.

Features

- Integrated design, save space.
- The internal wiring and waterway are highly integrated, and users only need to connect the power supply and enter and exit the water.
- The internal waterway design can try to ensure that the water flow is stable during the internal measurement process of the equipment, and ensure the monitoring data is accurate.
- DPD colorimetric analyzer, with automatic cleaning function, reducing maintenance.
- With 7-inch color touch screen, the operation interface is simple, easy operation, reliable system, low maintenance.
- With data storage and curve display functions, master the dynamic changes of water quality.
- With automatic fault diagnosis function, abnormal information recording and uploading functions, such as parts failure, over-range alarm, over-standard alarm and other information.
- Historical data download and curve display can intuitively and accurately understand and track the changes of water parameters within a certain period.
- With three-level management authority, Optional wireless data transmission module (best to purchase in your local market)

Applications

- Rural tap water quality monitoring.
- Water quality monitoring of waterworks and water supply network.
- Detection of water quality standards for secondary water supply in the community.
- Real-time water quality monitoring of swimming pool, SPA.

Technical Specifications

Display	7inch LED touch screen, can operate in direct sunlight
Power	AC Power：85-500VAC；DC Power：9-36VDC
Output	8 way 4-20mA analog output. Program setting response parameters and response values
Relay	Four relays, program setting response parameters and response values
Communication Protocol	Standard MODBUS RS485 communication function, real-time transmission of measured values. Optional wireless communication method: 4G: UDP / TCP NB: UDP
Storage & Operation Temp.	Storage temperature:0-60℃,Operation temperature:0-45℃ (non-frozen)
Protection Level	IP54
Size	340*450*900mm (L* W*H)

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Monitoring parameter index

Residual chlorine /total chlorine	**Principle**	DPD Standard colorimetry
	Range	0-10ppm
	Resolution	0.01ppm
	Accuracy	0-5ppm：±5% reading or ± 0.03ppmCl2, whichever is greater 5-10ppm：±10%
pH	**Principle**	Glass electrode method
	Range	0-14 pH
	Resolution	0.01 pH
	Accuracy	±0.1 pH
ORP	**Principle**	Glass electrode method
	Range	-2000mV-2000mV
	Resolution	1mV
	Accuracy	±5mV
Conductivity	**Principle**	Conductivity cell method
	Range	10us/cm-5000 us/cm（K=1）
	Resolution	0.1uS/cm-0.01mS/cm（Depends on range）
	Accuracy	±3% or 3 us/cm，greater one
Turbidity	**Principle**	Light scattering
	Range	0-100NTU
	Resolution	0.001-0.1NTU（Depends on range）
	Accuracy	0.001-40NTU: reading ±2% or ±0.015NTU，greater one； 40-100NTU: reading ±5%
Color	**Principle**	Absorbance spectrophotometry
	Range	0-100 degree
	Resolution	0.1 degree
	Accuracy	±10% or±1degree, whichever is greater
Temp.	**Principle**	Thermistor method
	Range	0℃-40℃
	Resolution	0.1℃
	Accuracy	±0.5℃

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