VW-5000 Series
Water Multi-parameter Analyzer

Model No: VW-5000

it’s all about water
VW-5000 Series Water Multi-parameter Analyzer

**Over View:**
VW-5000 Series Water Multi-parameter Analyzer is a self-developed water monitoring product, which takes sensor technology & IOT technology as the core, integrates water monitoring technology, mobile data communication technology and etc. It realizes intelligent monitoring, data reading, data storage of multiple water parameters, including COD, NH3N, pH, DO, temperature, conductivity, turbidity, ORP, chlorophyll, blue-green algae, residual chlorine, flow and etc. According to customized protocol, the data can be uploaded to system platform.

**Feature:**
- Realize monitoring of multiple parameters via one device, convenient to query historical data.
- Strong expand ability, customize different monitoring parameters according to different requirements of customers.
- Adopt 7-inch touch LCD, beautiful display and simple operation, even unprofessional people also can use quickly.
- Employ standard 485 data transmission and Modus standard protocol by default (customizable).
- High quality sensor with good reliability and anti-interference capability.
- Realize fast network communication, stable and safe; support wire and wireless transmission.

**Controller Specification:**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display screen</td>
<td>7TFT touch screen, LED Back light, 1024 x 600 resolution</td>
</tr>
<tr>
<td>IPC</td>
<td>A7 quad-core CPU, 1.2GHz</td>
</tr>
<tr>
<td>Serial port function</td>
<td>1xUSB, Internet access is expandable</td>
</tr>
<tr>
<td>Data communication</td>
<td>Default RS485, standard Modbus protocol</td>
</tr>
<tr>
<td>Ambient requirements</td>
<td>Temperature: 5-45°C, humidity 90% (non condensing)</td>
</tr>
<tr>
<td>Power</td>
<td>AC220 ± 10%V, 50 ± 10%Hz</td>
</tr>
<tr>
<td>Dimension</td>
<td>246.7 x 200.0 x 113.2 (mm)</td>
</tr>
<tr>
<td>Other</td>
<td>Abnormity alarm and outage will not lose any data Touch screen for display and command input Reture to working state automatically after error recovery and power restoration</td>
</tr>
</tbody>
</table>
**VW-5000 Series**

*Water Multi-parameter Analyzer*

**Probe Specifications:**

- **Measurement parameter:** DO, pH, conductivity, turbidity
- **Probe model:** DO: 0-20mg/L; turbidity: 0-4000NTU (customizable)
  - Conductivity: 0-200ms/cm (customizable); pH: 0-14
- **Range:** DO: ±0.3 mg/L; pH: ± 0.1pH; Conductivity: ± 1%; Turbidity: ± 3%
- **Repeatability error:** DO: <0.1mg/L; Conductivity: 1%; Turbidity: ± 3%
- **Zero drift:** DO: 0.2mg/L; Conductivity: ±1%; Turbidity: ±5%
- **Span drift:** pH: ±0.1pH
- **Drift:** DO: 30; pH: 15 Conductivity: 15; Turbidity: 30
- **Response time(s):** 034 x 205
- **Dimension:** Yes
- **Temperature compensation**
- **Working voltage:** 12V/24V
- **Cable length Standard cable:** 3m (customizable and extensible)