# PMI800-COD Portable Spectrometer Organic Water Analyzer

## Principle of Measurement

Portable spectrometer organic water analyzer consists of portable host and Spectrometer Organic sensor.Based on the UV absorption reaction by organic matter, the Spectrometer Organic On-Line Analyzer uses the 254 nm spectral absorption coefficient SAC254 to measure the content of soluble organic compound in the water, and it can be converted to COD or BOD values under certain conditions. This method allows continuous monitoring without any reagents.



## Features

- The host with IP67 protection rating;
- 3.5-inch color screen display, interface menu design is beautiful, easy to operate;
- Ergonomic curve design, suitable for hand grip, with rubber non-slip hand strap, not easy to slip in wet environment;
- With data storage function, and data export through USB interface;
- Built-in rechargeable battery and charging directly via USB without disassembling the battery;
- Automatically identify the connected sensor type and the reading interface automatically adapts;
- The sensor can be parameterized and calibrated;
- The sensor uses LED light source, low power consumption.

## Technical Specifications

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| **Measuring Range** | COD (using KHP calibration)：0-500mg/l COD<br>BOD (using KHP calibration)：0-375mg/l BOD<br>Turbidity：10-800NTU |
| **Accuracy** | COD:±5%（KHP Standard solution）,Turbidity：±10% |
| **Repeatability** | 5%（KHP Standard solution） |
| **Resolution** | COD:0.01mg/L,Turbidity：0.01NTU |
| **Pressure Range** | ≤0.1Mpa |
| **Display** | 3.5-inch color display screen with adjustable backlight |
| **Power supply** | Built-in battery power, battery specifications: 4 3.7V rechargeable lithium battery |
| **Data storage** | More than 100,000 data |
| **Material** | Mainframe:ABS+PC<br>Sensor Body：SUS316L（fresh water），Titanium alloy（Ocean marine）；<br>Sensor Cable：PUR |
| **Protection level** | Mainframe: IP67,sensor: IP68/NEMA6P |
| **Operating temp.** | 0-50℃（Non-freezing） |
| **Storage temperature** | -15-60℃ |
| **Size&Weight** | Mainframe:203*100*43mm,0.5KG<br>sensor:Dia 34mm*Length 209mm,＜0.8KG |
| **Cable length** | Standard: 3 m(The cable can be extendable) |



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