

## Portable Water Quality Analyzer

## ATE3000

### Feature:

- Built-in 3 LED light sources of 420nm, 620nm, 700nm
- Test Items: Chemical Oxygen Demand (COD), Ammonia Nitrogen, Nitrate Nitrogen(NO<sub>2</sub>-N,NO<sub>3</sub>-N), Total Nitrogen, Total Phosphorus, Orthophosphate etc
- Optical path auto switch from 16 nm to 25 nm
- Shared tube of Digestion and Cuvette, convenient to operate, no need tube replacement can improve efficiency.
- Self-built standard curve can be customization
- Factory reset to restore default setting
- Charging battery, USB power supply and connect to the PC
- Export data by printer
- Add a timer function
- Digestion device installed PID modular technology to fast heating to constant temperature.
- Overheating protection function improve digestion safety

### Applications:

- Sewage treatment plant
- Environmental monitoring
- Universities and colleges,scientific research institutions
- Industry:electroplate, papermaking, pharmacy printing and dyeing, textile, leather, winemaking, petrochemical

### Description:

ATE3000 is new generation of self-developed multiparameters portable water quality analyzer by Optosky. It adopts high-quality cold light source, high stability,and it has a unique temperature control module,can maintain the stability of the read value for a long time.It has optical path automatic switching function,can directly test the optical path in the range of 16-25mm.The digester adopts intelligent PID temperature control technology and special structure design,ensure the best heating uniformity.

It has clean interface,simple and safe to use.It has dilution function,can directly display the concentration of the water sample,with user-built curve function.

It has a one-button recovery function,can be connected to a printer to print data,with USB interface,data can be downloaded conveniently.

| Model   | Parameter          | Measure Range                 |
|---------|--------------------|-------------------------------|
| ATE3000 | COD                | 20~100mg/L(customizable)      |
|         | Ammonia Nitrogen   | 0.000~1.000mg/L(customizable) |
|         | NO <sub>2</sub> -N | 0.000~0.150mg/L(customizable) |
|         | NO <sub>3</sub> -N | 0.000~0.500mg/L(customizable) |
|         | Total Nitrogen     | 0.000~0.500mg/L(customizable) |
|         | Total Phosphorus   | 0.000~1.600mg/L(customizable) |
|         | Orthophosphate     | 0.000~1.000mg/L(customizable) |



## 1 Specification

| ATE3000 System Parameters |  |   |                 |
|---------------------------|--|---|-----------------|
| Measure Room              | Fit to tube diameter at 16-25 mm                                 |   |                 |
| Measure Parameters        | Measure Range  | Accuracy  | Repeatability   |
| COD                       | 20-100mg/L(customizable)   | COD $\leq$ 50mg/L, $\leq$ 5mg/L;<br>COD $>$ 50mg/L, $\leq$ $\pm$ 5% | $\leq$ $\pm$ 5% |
| Ammonia Nitrogen          | 0.000~1.000mg/L(customizable)                                    | $\leq$ $\pm$ 5%   | $\leq$ $\pm$ 5% |
| NO <sub>2</sub> -N        | 0.000~0.150mg/L(customizable)                                    | $\leq$ $\pm$ 5%   | $\leq$ $\pm$ 5% |
| NO <sub>3</sub> -N        | 0.000~0.500mg/L(customizable)                                    | $\leq$ $\pm$ 5%   | $\leq$ $\pm$ 5% |
| Total Nitrogen            | 0.000~0.500mg/L(customizable)                                    | $\leq$ $\pm$ 5%   | $\leq$ $\pm$ 5% |
| Total Phosphorus          | 0.000~1.600mg/L(customizable)                                    | $\leq$ $\pm$ 5%   | $\leq$ $\pm$ 5% |
| Orthophosphate            | 0.000~1.000mg/L(customizable)                                    | $\leq$ $\pm$ 5%   | $\leq$ $\pm$ 5% |
| Optical stability         | $<$ 0.003A/20min   |   |                 |
| Power supply              | Battery(5 hours) or DC 5V  |   |                 |
| USB interface             | Support connect to PC  |   |                 |
| Printer                   | Optional   |   |                 |
| Timer                     | Have   |   |                 |
| Smart power saving        | 10min(time settable) automatic shutdown                          |   |                 |
| Environmental             | 5-40°C;relative humidity $<$ 85%,no condensation                 |   |                 |
| size                      | 152mm*143mm*115mm  |   |                 |
| Digestion device          |  |   |                 |
| Power supply              | DC 12V   |   |                 |
| Digestion hole            | 6  |   |                 |
| Temp accuracy             | $\pm$ 0.5°C  |   |                 |
| Temp range                | room temperature-199°C adjustable                                |   |                 |
| Temp control time         | 0-999min adjustable(buzzer alarm prompt at the end of digestion) |   |                 |
| Size                      | 181mm*126mm*142mm  |   |                 |
| Protective cover          | Protect personnel safety   |   |                 |

## 2 Photo





The Actual Picture of ATE3000