

AQUASOL DIGITAL

Chemical Oxygen Demand Analyzer



A Product By



RAKIRO BIOTECH SYSTEMS PVT LTD
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An
ISO 9001:2015
Company

Instructions Before Use

1. Please study this instruction manual carefully before using this product.
2. Please operate the instrument at room temperature and proceed with COD measurement after the vial cools down to the room temperature and the uniformly-mixed reagent is completely precipitated.
3. Please make sure the supply voltage and frequency conform to power specified on main unit.
4. If using a 9V square battery, please make sure to remove the battery when the instrument is unused for a long term to prevent leakage. Battery is Not Supplied by us.
5. Please discard packing material according to local related regulations.
6. Please make sure that the instrument is operated under the following conditions : Indoor use
Altitude up to 2000 m
10°C to 40°C
80% RH Max
7. Please clean and maintain the instrument and accessories according to the maintenance method after every use.

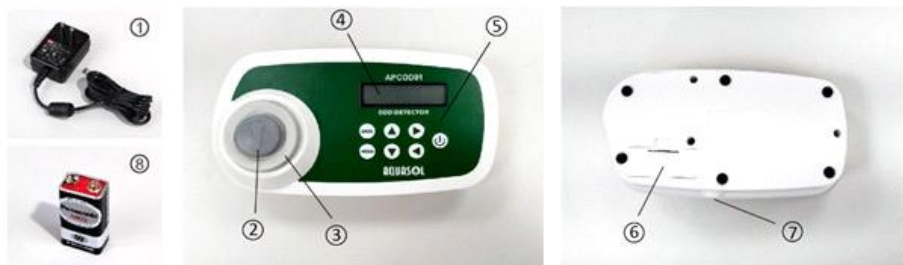
Unpacking

Carefully check if the shipping carton is in good condition before unpacking. Please check all supplied items according to standard package list. If you have any questions, please keep serial no. & shipping carton and contact your local dealer for help.

| Item | Assembly |
|------|--------------------|
| 1 | COD Detector |
| 2 | Vial Dust Cap |
| 3 | Charger |
| 4 | Instruction Manual |



Device Layout








| Position | Designation | Position | Designation |
|----------|---------------------|----------|-----------------------------------|
| 1 | Transformer | 5 | Button |
| 2 | Vial Dust Cap | 6 | Battery cover |
| 3 | Tube insertion port | 7 | Power outlet |
| 4 | Screen | 8 | 9 V square battery (Not Supplied) |

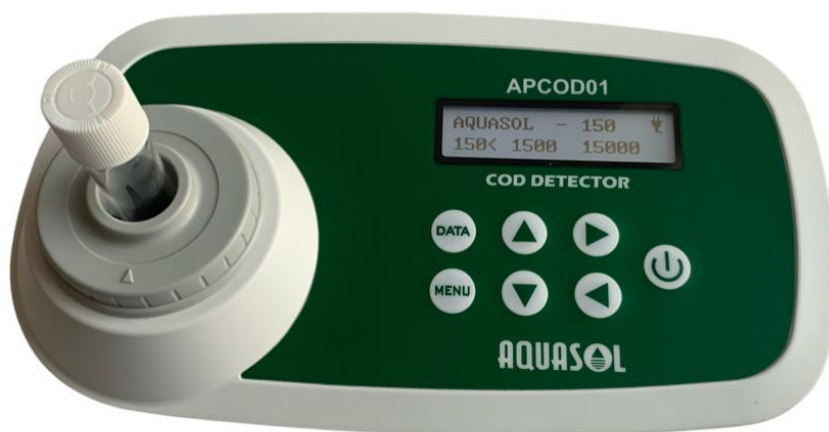
Button Operations

| Buttons | Function | Description |
|---------|-------------|---|
| Data | Data | Show the data in the display |
| Menu | Menu | Back to the previous menu |
| △ | UP Arrow | Scrolls up through selected menus or stored data |
| ▽ | Down Arrow | Scrolls down through selected menus or stored data |
| ▷ | Right Arrow | Scrolls right through selected menus or stored data |
| ◁ | Enter | Within a menu, selects the displayed menu item. During numeric entry, accepts the displayed value. |
| ⏻ | Power | Power switch |

Display Symmol Description

| Symbols | Description |
|---|---|
|  | Show the state of using a adapter |
|  | 100 % full power. |
|  | 66 % power. |
|  | 33 % power. |
|  | 5 % low battery, replace the battery as soon as possible. (Backlight and sound closed) |
| << | Selected option |
| < | Selected option |

Operation Image




Operation

| Steps | Display | Description |
|-------|---------------------------------|---|
| 1 | AQUASOL DIGITAL COD DECECTOR | Turn on the power, the screen shows AQUASOL DIGITAL |
| 2 | AQUASOL-1500 150 1500<15000 | Press ► button to select 150 or 1500 or 15000 then press ◀ |
| 3 | AQUASOL-1500 Start< Info | To Start Test Press ◀ |
| 4 | AQUASOL-1500 Insert Blank | Now Insert Blank Vial in the tube holder |
| 5 | AQUASOL-1500 Blank Ok | After 2 Seconds meter will detect Blank and OK message will appear |
| 6 | AQUASOL-1500 Insert Sample | Pull out the Blank vial and Insert Sample Vial |
| 7 | AQUASOL-1500 Sample Value | After 2 seconds meter will show the COD value of the sample and then automatically save the data. |
| 8 | AQUASOL -1500 Sample Value | Insert Next sample vial into the vial holder, and retest COD value. |

Note :

- Clean and wipe dry the Vials with cloth or tissue paper before inserting in the meter.
- Make sure to insert each sample vial into the vial holder in the same direction to make COD value more consistent.
- Pressing Data button can show the storage data in the display.
- Over range error or under range error during a measurement, the concentration is too high or too low.

Shutdown description

| Item | Steps | |
|------|---|--|
| 1. | <p>Press the power button and Press ► button to select an option, and press ◀</p> <p>Yes : Turn off the power</p> <p>No : Back to the previous menu</p> | <p>S h u t d o w n ? </p> <p>Y e s << N o</p> |

Maintenance

1. Clean the exterior of the instrument with a moist cloth and a mild soap solution and then wipe the instrument dry.
2. If the instrument is not used for a long time, be sure to put on the dust cover.
3. Explosion hazard. Expired batteries can cause hydrogen gas buildup inside the instrument. Replace the batteries before they expire and do not store the instrument for long periods with the batteries installed.
4. If the tube insertion port is dirty, please swab it with alcohol to avoid reading interference problems.

Troubleshoot

| Possible cause | Solution |
|---------------------------------------|---|
| Instrument fails to start | <p>No electrical supply - Check the power supply conform to power specified on main unit or the switch is broken</p> <p>Battery error - Change a new 9V square battery</p> <p>Internal part failure - Contact technical support</p> |
| The screen is not displayed | Contact support |
| Screen without backlight | Internal part failure - Contact support |
| No button sound | <p>Battery error - Change a new 9V square battery</p> <p>Internal part failure - Contact support</p> |
| No response after pressing the button | Contact support |
| No response after inserting the vial | Contact support |

Technical Specification

| Parameter | COD (Chemical Oxygen Demand) |
|---------------|---|
| Model | APCOD01 |
| Range | Low: 3 - 150 mg/l Medium: 20 - 1500 mg/L High: 200 - 15000 mg/L |
| Wavelength | 420 - 610 nm |
| Accuracy | $\pm 3\%$ of FS < 1500 mg/L $\pm 5\%$ of FS > 1500 mg/L |
| Response Time | < 3 Seconds |
| Power | 9V DC Power Adapter or DC 9V Battery |
| Dimension | 230 x 125 x 85 MM (Meter Only) |
| Meter Weight | 310 G (Meter Only) |



APCOD01
COD Meter

Warranty Card*

Customer Name/ Address : _____

Dealer Name/ Address: _____

Bill No. _____

Date -: _____

Product Code

Serial No

