

AQUASOL DIGITAL

COD Meter

APCODM1



Product Manual / Warranty Card

www.rakiro.net

Introduction

We thank you for purchasing the APCODM1 Portable Chemical Oxygen Demand (COD) Meter. Before operating the instrument, please read these instructions carefully. Proper understanding of the operating procedures will help ensure accurate measurements, reliable performance, and long service life of the instrument, while also preventing issues caused by improper operation or maintenance.

The APCODM1 Portable COD Meter is designed using advanced technology with an integrated microprocessor system. It is suitable for COD measurement in water samples for research institutes, industrial laboratories, environmental monitoring, and field applications.

The information contained in this manual is subject to change without prior notice as product improvements and enhancements are made.

Features

- Microprocessor based fast and reliable and accurate measurements.
- Suitable for Standard Vial Size (16MM)
- USEPA Compliant Closed Reflux Method
- Designed for Wide Range (Up to 15000 MG/L)
- Fast Detection with Large LCD display.
- Memory and Storage function

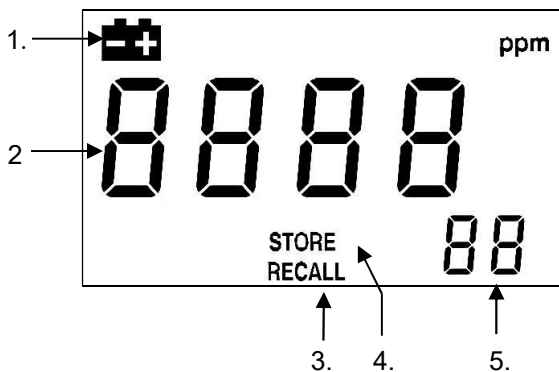
Specification:

Model	APCODM1
Parameter	COD (Chemical Oxygen Demand) Meter
Range	Low: 3 -150 PPM Medium: 20 - 1500 PPM High: 200 - 15000 PPM
Accuracy	$\pm 3\%$ for FS < 1500 PPM & $\pm 5\%$ for FS > 1500 PPM
Response Time	< 3 second
Power	AAA DC 1.5V x 4 Batteries
Dimension	70 mm x 135 mm x 65 mm (Meter)
Weight	168g

Accessories:





COD Meter, AAA Battery, Vial Cover (Black), In pack Booklet, Meter Box

Display Details



1. Battery low sign
2. Reading or Range selection.
3. Recall mode
4. Reading stored sign
5. Resolutions indicator:
 - 1** – 1 PPM (Range 3 – 150 PPM and 20 – 1500 PPM)
 - 10** – 10 PPM (Range 200 – 15000 PPM)
6. Unit

Keyboard Details

	Power.
	Select Up Enter or Exit Recall mode. In Recall mode, browse records.
	Select Down Store the current reading. In Recall mode, browse records.
	Read reading. Zero Calibration.

Meter Preparation

- 1) Install the Batteries in the Meter.
- 2) Place the Meter on a Flat Clean Surface.
- 3) Complete the COD Vial Digestion Process and then use meter.
- 4) Make sure you cover the vial with Vial Cover once placed in the meter for accurate readings.

Measurement:

1. Startup: Power on and wait for the AQD text to disappear.
2. Use the arrow keys to select the range (150, 1,500, or 15,000) and press READ to confirm.
3. Zeroing: The LCD displays 0000. (A small "1" appears for 150/1,500 ranges; "10" appears for the 15,000 range). Insert the 0 PPM sample, put the vial cover and press READ. The LCD will flash 0000 during zeroing.
4. Reading: Once zeroed, the LCD shows ----. Insert the sample, put the vial cover and press READ. The screen will flash ---- during the reading before displaying the final value.
5. Continuous Testing: For subsequent samples, you can press READ directly; the meter uses the previous zero point.
6. Re-zeroing: To re-perform zero calibration, long-press READ/ZERO. The LCD will return to 0000. Insert a new 0 PPM sample, put the vial cover and press READ to recalibrate the zero point.

Note:

1. Meter is Factory Calibrate for all the ranges.
2. To select a different range, the device must be restarted.
3. The Process of Vial Preparation and Vial Digestion are very critical to get accurate COD readings.

Store and Recall mode:

1. After getting a reading, press STO to store the current reading. The Store icon and the ordinal of this record will appear on the display.
2. Long-press RCL for 3 sec. to enter Recall mode. In this mode, use Up Arrow or Down Arrow to browse records. Long-press RCL to exit this mode and return to measuring mode.
3. In Recall mode, press Up Arrow and Down Arrow together for 3 sec. to clean all the records in the memory.

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 it back in the box.
3. 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.

WARRANTY CARD

Customer Details:

Name: _____

Address: _____

Email Id: _____

Contact No: _____

Dealer Details:

Name: _____

Address: _____

Stamp & Signature

Product Details:

Bill No: _____ Bill Date: _____

Product Serial No: _____

Manufactured By



Rakiro Biotech Systems Pvt Ltd

R466, Rabale MIDC, Navi Mumbai INDIA