

AQUASOL DIGITAL

Digital Instruments

- ◆ Hand Held Meters
- ◆ Bench Top Meters
- ◆ Portable Meters
- ◆ Electrodes
- ◆ Multiparameter Meter
- ◆ Calibration Solution

Free Chlorine

Conductivity

pH

Turbidity

DO

TDS

EC

ORP

Temperature

Total Chlorine

O₂

Chlorine



An ISO 9001 : 2008 Company

AQUASOL DIGITAL

RAKIRO brings a complete Electrochemistry Solution for all your applications with a wide range of digital testing instruments. These instruments are designed and developed by professionals using advanced technologies in compliance with the international standards.

We have an extensive range of instruments to aid in electrochemical measurements for a variety of applications including food, agriculture, wastewater treatment, industrial processes, environmental monitoring and research and development. All our instruments are factory calibrated and are ready to use out of the box. However, after prolonged usage, recalibration is recommended using a commercial standard solution.

Get in touch with for your requirements and let us bring our knowledge & experience in the field of testing, to help you solve your application needs.

Digital Instruments Handheld Meters



Our portable handheld testers are waterproof and dust proof meters that float if dropped in liquid. These meter's have an IP 57 rating for protection against solid objects or liquids & are encased in a protective carrying pouch for safety and portability. A large, upright, LCD screen affords clear viewing, while a protective cap helps to reduce contamination. A silicone O-ring ensures tight closure and thus ease of electrode module replacement.

We have an extensive range of portable hand held testers to aid in electrochemical measurements for a variety of applications including food, agriculture, wastewater treatment, industrial processes, environmental monitoring and research and development.



Features :

- ▶ Microprocessor based Fast, Reliable and Accurate measurement.
- ▶ Replaceable Electrode Module.
- ▶ Waterproof Impact resistant ABS case (IP 57).
- ▶ Large LCD display for reading convenience.
- ▶ Easy Calibration.
- ▶ Available in a portable pouch.
- ▶ Manufacturer Warranty for 6 Months.

Product Range :

| Parameter | pH | Conductivity | Conductivity | TDS | TDS | ORP |
|------------|-------------------------------|--------------------|-------------------|--------------|--------------|--------------|
| Model | AM-PH-01 | AM-COND-01 | AM-COND-02 | AM-TDS-01 | AM-TDS-02 | AM-ORP-01 |
| Range | 0-14 | 0-19990 μ S/cm | 0-1999 μ S/cm | 0-19990 ppm | 0-1999 ppm | (+/-)1999 mV |
| Accuracy | $\pm 0.1 + 1$ digit | 1% FS | $\pm 1\%$ FS | $\pm 1\%$ FS | $\pm 1\%$ FS | $\pm 2\%$ FS |
| Resolution | 0.1 pH | 10 μ S/cm | 1 μ S/cm | 10 ppm | 1 ppm | 1 mV |
| Power | 3V x 2 Lithium battery Cr2032 | | | | | |
| Dimension | 33.5 x 170 mm | | | | | |
| Display | 3 Digit | | | | | |
| Weight | 85 g | | | | | |
| Electrode | Replaceable | | | | | |



Our unique designed and engineered DO meter are handheld, waterproof and dustproof that float if dropped in liquid. Its compact design and technology helps to measure Dissolved Oxygen / Oxygen Percentage very effectively at the same time. Testing with portable oxygen meters determines whether or not you have optimal dissolved oxygen levels necessary for good water quality. For accurate results this test should be performed on site. Our handheld type advance microprocessor based, fast and accurate DO/O₂ meter is ideal for such applications. These meters are cost effective and come encased in a protective carrying pouch for safety and portability.

Features:

- ▶ Microprocessor based for fast and accurate measurements.
- ▶ Large LCD display DO and Temperature readings simultaneously.
- ▶ Simple to calibrate by one keyboard and ATC.
- ▶ Memory with Data-hold and Max/Min and shows PTS after calibration.
- ▶ Easy to replace the DO probe module.

Product Range :

| Parameter | DO | O ₂ | Temp |
|------------|-----------------------------|----------------|---------------|
| Model | AM-DO-01 | | |
| Range | 0 to 20 mg/L | 0 to 200% | 0 to 90 Deg C |
| Accuracy | ±0.2 + 1digit | ± 2% FS | ±0.2+1 digit |
| Resolution | 0.01 | 0.1 | 0.1 |
| ATC | 0 to 50 Deg C | | |
| Power | AAA - DC 1.5V x 4 Batteries | | |
| Dimensions | 195 x 40 x 36 mm | | |
| Weight | 135g | | |

Digital Instruments
Multi-Parameter Hand Held Meter



Our Multi-Parameter Meter is handheld, waterproof and dustproof that float if dropped in liquid. Its compact design and technology helps to measure pH, Conductivity, TDS, Salt and Temperature at the same time. An important feature of the testers is a replaceable electrode within a reusable tester body. The microprocessor-based meter gives accurate readings in fluctuating temperatures and can be easily calibrated. These meters are cost effective and come encased in a protective carrying pouch for safety and portability.

Features :

- ▶ Microprocessor based fast, reliable and accurate measurements.
- ▶ Memory and Storage function.
- ▶ Weatherproof Case and compact Design.
- ▶ Large LCD display for reading convenience.

Product Range :

| Parameter | pH | ORP | Conductivity | TDS | Salt | Temp. |
|--------------|-----------------------------|--|---|--|---|----------------|
| Model No | AM-AL-01 | | | | | |
| Range | (-)2.00 to 16.00 | (-)1999 to (-)200 mV (-)199.9 to 499.9 mV 500 to 2000 mV | 0.0 to 199.9 µS/cm 200 to 1999 µS/cm 2.00 to 19.99 mS/cm 20.0 to 100.0 mS/cm | 0.0 to 131.9 ppm 132 to 1319 ppm 1.32 to 13.19 ppt 13.2 to 66.0 ppt | 0.0 to 99.9 ppm 100 to 999 ppm 1.00 to 9.99 ppt 10.0 to 50.0 ppt | 0 to 110 Deg C |
| Accuracy | ±0.01 + 1 Digit | ± 2+1 digit | ±2% FS | ±2% FS | ±2% FS | ±0.2 + 1 Digit |
| Resolution | 0.01 pH | 1/0.1/1 mV | 0.1/1 µS/cm 0.01/0.1 mS/cm | 0.1/1 ppm 0.01/0.1 ppt | 0.1/1 ppm 0.01/0.1 ppt | 0.1 Deg C |
| Compensation | 0 to 100 Deg C | N/A | 0 to 50 Deg C | 0 to 50 Deg C | 0 to 50 Deg C | N/A |
| Power | AAA - DC 1.5V x 4 Batteries | | | | | |
| Dimension | 42 x 33 x 183 mm | | | | | |
| Meter Weight | 160 g | | | | | |



Turbidity Meter



To make on site testing easy and simple we have a specially designed portable meter which enables a user to analyse different water parameters on site with higher accuracy. The meter is supplied in a hard plastic case with all the accessories which are required to carry out test on site. These meters have a weatherproof case and are ultra light to carry on site. They are provided with large LCD display and advance memory storage functionalities.

Features :

- ▶ Microprocessor based fast, reliable and accurate measurements.
- ▶ Spectrophotometric Method for Detailed Analysis.
- ▶ Reagents & Standards Based on International Methods.
- ▶ Zero Operational Cost for Turbidity Meter.
- ▶ Very Low Recurring Cost for Chlorine Meter.
- ▶ Weatherproof Hard Case and Compact Design.
- ▶ Large LCD display for reading convenience.
- ▶ Memory and Storage function.



Free and Total Chlorine Meter

Product Range :

| Parameter | Free / Total Chlorine | Turbidity |
|--------------|---|--|
| Model | AP-CL-01 | AP-TB-01 |
| Range | 0 to 5.00 ppm | 0 - 19.99 NTU 20 - 199.9 NTU 200 - 1000 NTU |
| Resolution | 0.01 ppm | 0.01 / 0.1 / 1 NTU |
| Accuracy | ± 0.03 + 1 digit at < 2 ppm ± 3% FS + 1 digit at > 2 ppm | ± 3% of reading + 1 digit at < 500 NTU ± 5% of reading + 1 digit at > 500 NTU |
| Response | <5 seconds | <10 seconds |
| Reagent | FC1 & TC1 | NA |
| Sample | 10 ml | |
| Power | AAA - DC 1.5V x 4 Batteries | |
| Dimension | 70 x 135 x 65 mm | |
| Meter Weight | 168 g | |

Digital Instruments Bench Top Meters



For detailed analyses for parameters like pH, TDS, Conductivity, and Dissolved Oxygen in industries we have specially developed a reliable, accurate and robust meters. These meters are available with built in stirrer which enhances the measuring performance and provides accurate readings. Majority of the meters have multi parameter option i.e. same meter can analyse different parameter by just adding an electrode. All meters are advance microprocessor based with rugged housing & splash proof keyboard.

Features :

- ▶ Advance Microprocessor based with rugged housing & splash proof keyboard.
- ▶ Built-in Stirrer function platform with electrode holder for convenience.
- ▶ Large LCD display for multi parameter display simultaneously.
- ▶ Built in ATC (Automatic Temperature Compensation).
- ▶ Advance Storage / Memory function with USB Connectivity.

Product Range :

| Parameter | pH | ORP | Conductivity | TDS | Salt | DO | O2 | Temp | Stirrer |
|--------------|----------------------|---|---|--|---|---------------------|--------------|---------------------|-------------------------|
| Range | (-)2.00 to 16.00 | (-) 1999 to (-) 200 mV (-) 199.9 to 499.9 mV 500 to 2000 mV | 0.0 to 199.9 μ S/cm 200 to 1999 μ S/cm 2.00 to 19.99 mS/cm 20.0 to 100.0 mS/cm | 0.0 to 131.9 ppm 132 to 1319 ppm 1.32 to 13.19 ppt 13.2 to 66.0 ppt | 0.0 to 99.9 ppm 100 to 999 ppm 1.00 to 9.99 ppt 10.0 to 50.0 ppt | 0 to 20.00 mg/L | 0 to 200.0 % | 0 to 110 Deg C | Variable RPM & Timer |
| Accuracy | $\pm 0.01 + 1$ Digit | $\pm 0.2 + 1$ Digit | $\pm 2\%$ FS | $\pm 2\%$ FS | $\pm 2\%$ FS | $\pm 0.2 + 1$ Digit | $\pm 2\%$ FS | $\pm 0.2 + 1$ Digit | NA |
| Resolution | 0.01 pH | 1/0.1/1 mV | 0.1/1 μ S/cm 0.01/0.1 mS/cm | 0.1/1 ppm 0.01/0.1 ppt | 0.1/1 ppm 0.01/0.1 ppt | 0.01 mg/L | 0.10% | 0.1 Deg C | NA |
| Compensation | 0 to 100 Deg C | N/A | 0 to 60 Deg C | 0 to 60 Deg C | 0 to 60 Deg C | 0 to 60 Deg C | NA | NA | NA |
| Model | Parameters | | | | | | | | |
| AB-PH-01 | | | | | | | | | |
| AB-TDS-01 | | | | | | | | | |
| AB-DO-01 | | | | | | | | | |

Electrodes

Accuracy of your measurements depends on the instruments you use. Our extensive range of quality electrodes and sensors are designed to make your complex measurements routine, reliable, and accurate – in the lab or in the field. Available in a variety of body materials, body styles and sample requirements. The Following range of electrodes are available with us.



Product Range :

| Parameter | pH | pH | ORP | TDS/Conductivity |
|----------------|---------------|---------------------|-----------|------------------|
| Model | AM-E-PH1 | AM-E-PH2 | AM-E-ORP1 | AM-E-TDS1 |
| Range | 0 - 14 | 0 - 14 | ±1500mV | K=1.0 |
| Temp. | 0 to 90 Deg C | 0 to 80 Deg C | 80 Deg C | 80 Deg C |
| Type Reference | Ag/AgCl | Ag/AgCl | Ag/AgCl | N/A |
| Junction | Ceramic | Ground Glass Sleeve | Ceramic | Pt plate |
| Body | PC | PC | PC | Glass |
| Connector | BNC | BNC | BNC | BNC |
| Size(mm) | 155x12 | 160x12 | 160x12 | 155x12 |
| Refillable | Yes | No | No | No |
| Cable | 1 m | 1 m | 1 m | 1 m |



Calibration Solution

We have variety of calibration solution and electrolyte solution available with us. These are available in a 100ml & 500 ml pack to make it convenient and economical for onsite calibration.

Product Range :

| Sr | Product Code | Range | Quantity |
|----|--------------|------------|----------|
| 1 | AM-B1-PH | pH4 & pH7 | 100 ml |
| 2 | AM-B1-PH4 | pH 4 | 100 ml |
| 3 | AM-B1-PH7 | pH 7 | 100 ml |
| 4 | AM-B1-COND | 1413 µs/cm | 100 ml |
| 5 | AM-BF-DO | NA | 100 ml |



Product Range :

| Sr | Product Code | Range | Quantity |
|----|--------------|-------------|----------|
| 1 | AM-B5-PH4 | pH 4 | 500 ml |
| 2 | AM-B5-PH7 | pH 7 | 500 ml |
| 3 | AM-B5-PH10 | pH 10 | 500 ml |
| 4 | AM-B5-C1 | 1413 µs/cm | 500 ml |
| 5 | AM-B5-C2 | 12.88 ms/cm | 500 ml |
| 6 | AM-B5-ORP | 475 mv | 500 ml |

