

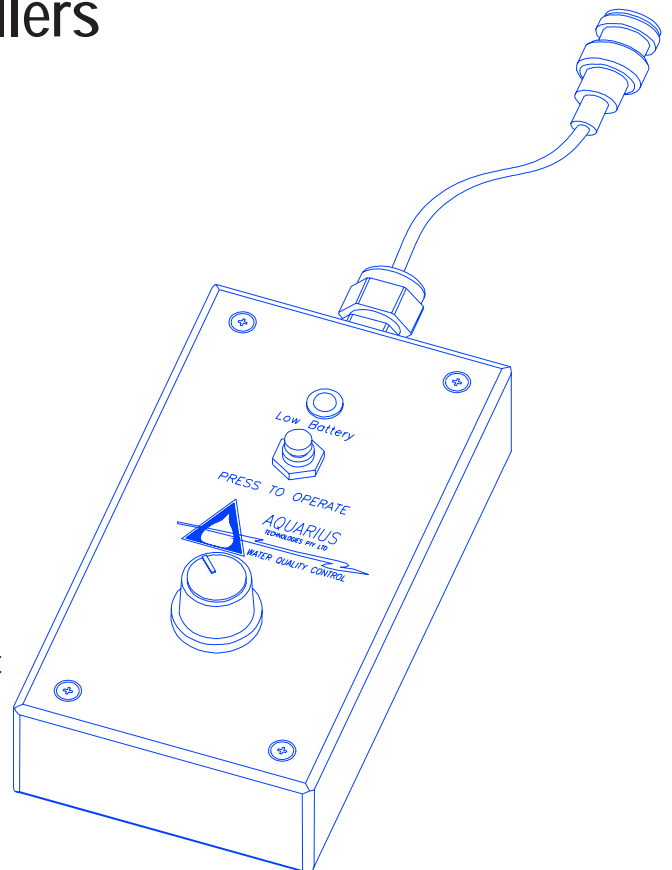
AQUARIUS

PH / MV CHECKER

Inexpensive Test Instrument
for very
Quick and Easy identification of
defective sensor probes
or defective electronics
on pH and/or ORP controllers



- ✓ Portable Test Instrument for Service
- ✓ Use on pH Controllers
- ✓ Use on ORP/Redox Controllers
- ✓ Simple & Easy to use
- ✓ Saves on Service Time when troubleshooting
- ✓ A "Must" for every Water Treatment field test kit
- ✓ "Low Battery" Indicator Led



ADVANCED TECHNOLOGY FOR THE NEW MILLENIUM

Aquarius PH/MV Checker

Features

1. Low current drain components ensure a healthy battery life.
2. Set the unit to the required output, depress the operate push button and the unit very quickly establishes the serviceability or otherwise of your pH or ORP control equipment.
3. Front panel indicator notifies the user of an impending 9 volt battery change.
4. Switch select, values for pH at 4.00, 7.00, 10.00 and ORP mV., of 0, 168, & 500 mV. to inject into and verify the electronics
5. Manufactured under a Q.A. system to ISO9001:1994 standard, and field proven in both our workshop and in On-Site diagnosis

Benefits

1. **Very INEXPENSIVE**
2. Excellent aid to assist the field service rep diagnosing pH or ORP control equipment.
3. Simple to operate and service.
4. Saves service time and money
5. Report exactly which is faulty - sensor or the electronics.
6. Assists in maintaining a Q.A. standard to field service of pH & ORP/Redox control equipment
7. Use on Competitors pH & ORP equipment provided sensors are via BNC Connectors.

Introduction

For the field serviceman, pH or ORP related control equipment can at times be quite difficult and frustrating to diagnose, is the sensor faulty?, or is it the electronics which is faulty? Several techniques are available but usually the equipment associated with these techniques is not readily available or not cost effective for each service representative.

The Aquarius Technologies **pH / mV Checker** solves this problem by being the inexpensive, easy to operate, **quick to diagnose piece of test equipment that every service representative can and should have in their field Test Kit!!**.

Technical Description

The pH / mV checker utilises low power consumption components to produce the simulated voltage of 3 different pH values (pH 4, pH 7, and pH 10) and 3 different ORP values (0 mV, 168 mV, and 500 mV), The Press to Operate push button switches in the battery, therefore battery life can be expected to exceed 12 months provided due care is taken during storage periods.

The unit is calibrated prior to leaving the factory with the pH 4 setting at 168 mV (from the Nernst equation), pH 7 at 0 mV, pH 10 at -168 mV, and obviously the 500 mV. setting at 500 mV. When used with a pH or ORP controller, these settings should quickly establish the condition of the controller and thus lead to replacement/repair of the controller or replacement of the sensor.

Operating Instructions

1. Disconnect the pH or ORP sensor input to the controller and connect the pH / mV checker to the input to be checked.
2. Set to the desired pH or ORP output and depress the Press to Test push button, the display should now read the value of the selected input +/- 5% if the electronics are operating correctly.
3. Set the output to the other ranges pertinent to the controller being tested and test all functions over the operating range.
4. Replace the 9 volt battery when the "Low Battery" indicator led is ON.

Whilst strictly not operating instructions for use of PH/MV Checker - the following will fully verify the pH or ORP equipment.

5. Don't forget to now clean, and calibrate the pH and ORP probes in the appropriate solutions, and you have now verified the validity of the pH or ORP controller.
6. Now change the set point to activate the dose relays, and the complete system has now been validated.
7. Don't forget to reset the "Set Point" back to the desired set point value on completion.
YES - its that simple.!!

Aquarius PH/MV Checker

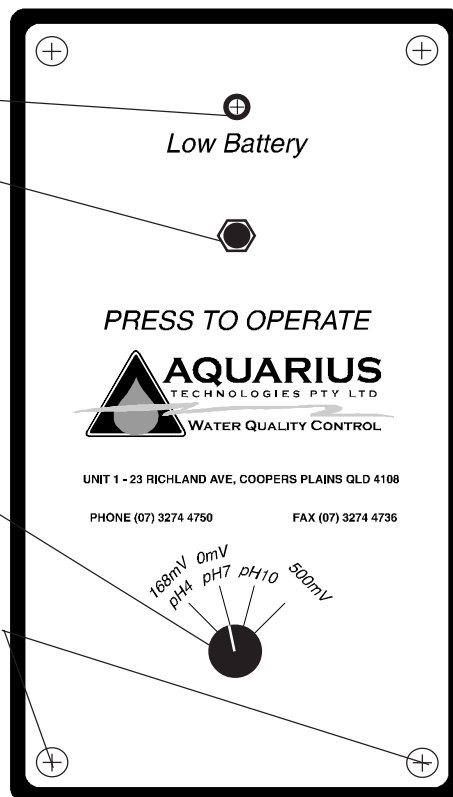
Front Panel Functions & Features

Low Battery Led - Glows when battery needs replacing

Push to Operate Switch - injects the selected pH or mV values when the switch is held down or ON.

Switch Select Knob - selects the particular pH or mV. value to inject into the controller as the test value.

Remove the four corner screws to remove lid and allow for 9 volt transistor battery replacement when necessary.



Aquarius PH/MV Checker

MANUFACTURER'S PRODUCT WARRANTY

AQUARIUS TECHNOLOGIES PTY. LTD. manufactures a range of equipment under a Quality Assurance system to ISO9001:1994 standards and warrants equipment of its manufacture to be free of defects in material or workmanship.

Liability under this policy extends for 12 months from the date of installation, or 24 months from the date of shipment from our factory, whichever ever occurs first. The manufacturer's liability is limited to repair or replacement of any failed equipment or part of, which is proven to be defective in material or workmanship upon the manufacturer's examination. This warranty does not include removal or installation costs and in no event shall the manufacturer's liability exceed its selling price of such equipment or part.

Aquarius Technologies Pty Ltd. disclaims all liability for damage to its products through improper installation, maintenance, use or attempts to operate such products beyond their functional capacity, intentionally or otherwise, or any unauthorised repair. Aquarius Technologies Pty Ltd. will not be responsible for any consequential or other damages, injuries, or expense incurred through use of its products.

This warranty is in lieu of any other warranty, either expressed or implied. Aquarius Technologies Pty Ltd. make no warranty of fitness or merchantability. No agent of ours is authorised to provide any warranty other than above.

This warranty does not exclude any condition or warranty implied by the Trade Practices Act 1974 or separate State Laws in Australia and is in addition to any other right that the original purchaser or any subsequent purchaser may have under Australian law.

Should a unit fail to function normally, please contact our Customer Service Department by phone or fax quoting, Model Number, and Serial Number, for initial discussion of the problems encountered, and if it is necessary to return the item to the factory, a Return Authorisation number will be given to facilitate return, and repair or replacement of the item.

The Item for return should be carefully packaged to prevent any damage in transit, contain the Return Authorisation identification number, customer identification, and return delivery details, and the freight prepaid to our factory. If in the opinion of our factory, after examination, the failure was due to materials or workmanship, repair or replacement will be made with out charge for parts, labour and return freight. A reasonable service charge will be made for diagnosis and/or repairs due to normal wear, abuse, tampering or damage in transit.

AQUARIUS TECHNOLOGIES PTY Ltd. reserve the right to continue development and improvement of the entire range of our equipment, and therefore minor changes may occur due to these improvements and the continuing development.