

AGRI-METERS™

Analog Handhelds Measuring EC and pH



AG6/PH FEATURES

- *Checks soil pH and salinity*
- *Checks water pH and salinity*
- *Checks correct fertilizer concentration*
- *Checks boiler water conductivity*
- *Automatic temperature compensation means no thermometers or adjustments*
- *Only small amount of soil needed for tests*

AG-5 FEATURES

- *Tests conductivity/salinity only*
- *Budget priced*

Plant health can be greatly affected by pH (acidic or basic), salinity (soluble salts), and alkalinity, yet these factors are often ignored by growers. It is easy to test for these three important parameters using a portable Myron L AGRI-METER.

SOILS

Optimum soil pH is essential for obtaining maximum efficiency from fertilizers and herbicides. This is especially true for artificial growing media which, without buffering capability, are much more pH sensitive than natural soil. In

addition, the pH of artificial soils can vary greatly when new, and must be adjusted (leached) before use.

Dissolved salts (salinity) in soil must also be monitored to guarantee healthy plants. Salt build-up in soil can be due to high TDS (total dissolved solids) in water, excess fertilizer, or poor drainage. Each plant has its own salinity tolerance level. If excessive salts accumulate in the soil, roots will take in little or no soil solution, resulting in reduced plant growth and quality.

Using a Myron L Model AG6/PH for checking soil salinity and pH is easy. Simply mix one part soil with two parts pure water. Some organic media, such as peat moss, need a 5:1 water:soil dilution ratio. Only a heaping tablespoon of soil is required. Agitate container vigorously. Let settle for 45-60 minutes and decant the water into the instrument cell cup. Push buttons to read directly in millimhos/conductivity (salinity) and soil pH.

FERTILIZER SOLUTIONS

Regular testing of conductivity insures that fertilizer solutions will contain the optimum level of salinity for maximum plant health

and growth. If a fertilizer injection system is used, it can be easily checked with an AGRI-METER by taking a sample solution as it comes out of the end of the hose or "spaghetti" irrigation tubes. Proper adjustment of the fertilizer injector can prevent these common problems: over or under feeding, plant damage and fertilizer waste.

WATER

Water pH can vary greatly from month to month because of rainfall effect on the aquifer.

Irrigation water, if high in soluble salts, can increase soil salinity causing plant damage. AGRI-METER tests water pH and salinity easily and quickly, and readings are given directly in millimhos/conductivity.

The correct pH of water used in pesticide solutions is also important in order to insure maximum effectiveness and prevent pesticide "break down".

MYRON L®
COMPANY
Water Quality Instrumentation
Accuracy • Reliability • Simplicity

ALKALINITY tests are critical to proper pH adjustments of water and floral preservative solutions.

CONDUCTIVITY TERMINOLOGY

Both AG-5 and AG6/PH AGRI-METERS are calibrated in millimhos, the term most widely used by growers to express electrical conductivity. Some charts may read in other units called micromhos. However, since one millimho equals 1,000 micromhos, conversion is easy. Parts per million (ppm) is also sometimes used. Conductivity/ppm fertilizer concentration tables can be obtained from your supplier, consultant, or university advisor.



SIMPLE TO OPERATE

Step 1: Rinse AGRI-METER built-in cell cup and fill with sample.

Step 2: Push black button and read conductivity.

Step 3: Push red button of Model AG6/PH and read pH.

SPECIFICATIONS

pH Range:

2-12 pH (AG6/PH only)

Conductivity Range:

0-5 millimhos

Accuracy:

pH: ± 0.2 pH units

Conductivity: $\pm 2\%$ of full scale

Repeatability:

$\pm 1\%$

Temperature Compensation:

Automatic (to 25°C) for Conductivity samples between 50-160°F/10-71°C

Electrodes (Built-in):

pH: KCl gel-filled; field replaceable

Conductivity: Never need replatinizing or replacement

Calibration:

Easy finger adjustment of pH Zero and Gain (slope), and Conductivity

Circuitry:

Solid State sealed against moisture

Power:

One 9-volt battery supplied

Battery Life:

Approximately one year or 2,000 tests

Case:

Heavy gauge textured ABS

Cell Cup:

Chip/crack resistant polyethylene

Dimensions:

3.4 W x 4.5 D x 4.0 H in./

86 x 114 x 102 mm

Weight:

Less than 1 lb./0,45 kg

ACCESSORIES

Conductivity Standard Solution: Every AGRI-METER is factory calibrated with a Standard Solution of known Conductivity value (3.9 millimhos/3900 micromhos). Your instrument will be kept most accurate by periodic recalibration with the same type 442-3000 Standard Solution.

pH Buffer Solutions: Available in 4, 7, and 10 pH values; they assure an accuracy of ± 0.2 pH units on every test. pH 7 Buffer is especially important, and should be used every two weeks. All Myron L pH buffers are traceable to NIST. certified pH references, and color coded for instant identification.

Replacement pH Sensor: Model RPY is a unique non-refillable KCl gel-filled pH combination electrode, featuring a porous liquid junction. Complete installation instructions included.

LIMITED WARRANTY

Myron L AGRI-METERS, excluding pH sensor, have a Two (2) Year Limited Warranty. The pH sensor in Model AG6/PH has a Six (6) Month Limited Warranty. If the instrument fails to function normally, return it to the factory prepaid. If, in the opinion of the factory, failure was due to materials or workmanship, repair or replacement will be made without charge. A reasonable service charge will be made for diagnosis for repairs due to normal wear, abuse or tampering. Warranty is limited to the repair or replacement of the Myron L AGRI-METER only. The Myron L[®] Company assumes no other responsibility or liability.

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