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## HANNA INSTRUMENTS METERS

### PHEP PEN METER

When HANNA introduced its first version of the grower quality pHep (pH electronic paper) in 1986, it immediately revolutionized the standard in pH measurement. pHep's ease-of-use in combination with its affordability made it possible for non-technical and technical personnel alike to measure pH on the spot, accurately and inexpensively throughout a variety of industries. Since its introduction, over 1 million pHeps have gone to satisfied customers around the world.

Order #: **30-00624** –sold as each



### COMBO PH/EC METER

The HI 98129 Hanna Combo waterproof tester offers high accuracy pH, EC/TDS and temperature measurements in a single grower quality tester! No more switching between meters for your routine measurements. The waterproof Combo (it even floats) has a large easy-to-read, dual-level LCD and automatic shut-off. pH and EC/TDS reading are automatically compensated for the effects of temperature (ATC). This technologically advanced tester has a replaceable pH electrode cartridge with an extendable cloth junction as well as an EC/TDS graphite electrode that resists contamination by salts and other substances. This gives these meters a greatly extended life. Your tester no longer needs to be thrown away when the pH sensor is exhausted. The EC/TDS conversion factor is user selectable as is the temperature compensation coefficient. Fast, efficient, accurate and portable, the Combo pH, EC/TDS and temperature tester brings you all the features you've asked for and more.

Order #: **30-98129** –sold as each



### PH, EC, TDS, METER

The Hanna HI 9813-0 allows you to measure pH, EC (conductivity) and TDS with just one grower quality instrument. This meter has a full-spectrum pH measurement range. The EC range goes to 4.00 mS/cm. In the TDS range, both instruments use a conversion factor from 0.56 to 0.72 for fertilizer readings, to ensure your measurements fully conform to industry standards.

Order #: **30-9813-0** –sold as each



### DIST 5 EC/TDS PEN METER

The original grower quality DiST (Dissolved Solids Tester) was first introduced in 1986 by HANNA. Since then, Conductivity and Total Dissolved Solids measurements have never been easier. DiST ease-of-use, in combination with its affordability, made it the standard in EC and TDS measurement. The DiST includes features such as a replaceable graphite electrode, adjustable TDS ratio, temperature in C or F, automatic temperature compensation (ATC), battery level indicator, stability indicator, automatic shut-off and automatic calibrating all in a floating, waterproof casing. This 3-in-1 tester is unmatched in EC/TDS/Temperature measurements.

Order #: **30-98311** –sold as each



### DIRECT STICK SOIL EC METER

The Hanna HI 98331 grower quality Soil Tester is a special pocket tester designed to directly measure soil conductivity and temperature. With an incorporated sensor in the penetration probe, readings are automatically temperature compensated. Conductivity range can be calibrated at one point and is designed to be calibrated in liquid. 122 mm (4.5") Penetration probe. Automatic temperature compensation. Lightweight and portable.

Order #: **30-98331** –sold as each



### FREE & TOTAL CHLORINE METER

[special order item]



To respond to the user's requirements to perform chlorine analysis, even at high concentrations, HANNA offers grower quality HI95734. HI95734 permits free and total chlorine analysis up to 10.00 ppm. This instrument is dedicated to monitor over-chlorination through to chloramines destruction.

Order #: **30-HI95734** –sold as each

To Order Call: 405.787.4833 or 1.800.522.3376  
Prices subject to change without notice

## HANNA METER SOLUTIONS & ACCESSORIES

### PH 4.0I BUFFER SOLUTION

HANNA buffer solutions are prepared according to precise formulas and are standardized with a pH meter calibrated according to the NIST standards. All pH 4 solutions show batch number, expiration date and the correlation table between pH and temperature. This buffer value is widely used in water purification plants, in the food industry and wherever the pH is expected to be slightly acidic.

Order #: **30-7004M** –250 ml. –sold as each



### PH 7.0I BUFFER SOLUTION

pH 7.0I is the most widely used among all buffer solutions. HANNA pH buffer solutions are NIST standardized reference solutions

Order #: **30-7007M** –250 ml. –sold as each



### 1413 MICROMOLES 25 DEGREE C SOLUTION

The 1413 mS/cm solution is the one best suited for general use in EC testing.

Order #: **30-7031M** –250 ml. –sold as each



### ELECTRODE CLEANING SOLUTION

Clean the liquid junction of your electrodes once a day or at least once a week when in use to prevent clogging and to maintain accuracy. Immerse the electrode in the proper cleaning solution for about 5 minutes.

Order #: **30-7061M** –230 ml. –sold as each



### PCA BUFFER KIT SOLUTION

Kit of reagents set for PCA series. Includes HI 70450, HI 70451 and HI 70452-0.

Order #: **30-HI70480** –sold as kit



### FREE OR TOTAL CHLORINE REAGENT

HANNA offers the HI 93734 which measures both free and total chlorine from 0.00 to 9.99 mg/L solution for about 300 tests.

Order #: **30-HI93734** –sold as each

## MYRON L METERS

### METER AG-6PH W/SOIL TEST KT [special order item]



Grower grade meter 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.

Order #: **30-0008** –sold as each –with soil test kit

Order #: **30-0009** –sold as each –meter only

### METER AG-5 W/SOIL TEST KIT

Grower grade meter for testing conductivity/salinity only. Budget priced.

Order #: **30-0010** –sold as each –with soil test kit

Order #: **30-0011** –sold as each –meter only

## MYRON L METER SOLUTIONS & ACCESSORIES

### STANDARD SOLUTION TYPE #4423000

442 Natural Water Standard Solution is used in calibrating many Myron L Instruments. It is the best choice when measuring boiler and cooling water samples, city water supply, lakes, wells, etc. "442" refers to the combination of salts mixed with deionized water to comprise this standard: 40% sodium sulfate, 40% sodium bicarbonate, 20% sodium chloride. A combination of standard salts is necessary since natural water salt type and concentration can vary greatly by location.

Order #: **30-0014** –1 qt. –sold as each



### 4.0 PH BUFFER SOLUTION

[special order item]

Mold inhibited and accurate to within +0.01 pH units at 25 degrees Celsius. Myron L Buffers are traceable to NIST certified pH references and are color-coded for instant identification.

Order #: **30-00145** –1 qt. –sold as each



# GROWING ACCESSORIES

KELWAY SOIL METERS, MOISTURE, PH & SOIL METERS, THERMOMETERS



## 7.0 PH BUFFER SOLUTION

Mold inhibited and accurate to within +0.01 pH units at 25 degrees Celsius. Myron L Buffers are traceable to NIST certified pH references and are color-coded for instant identification.

Order #: **30-0015** –1 qt. –sold as each



## ALKALINE TEST PILLS

Myron brand pills used to conduct alkalinity tests

Order #: **30-0017** –20 per pack

## KELWAY SOIL METERS

### HB-2 COMMERCIAL SOIL TESTER

Increase productivity by controlling soil acidity with a Kelway direct reading soil tester. Test soil in 3 minutes. The Kelway tester operates on the principle of electrical potential between two dissimilar metal plates-without batteries or any external power source. When inserted into moist soil the HB-2 registers degree of acidity on the upper scale. The lower scale shows degree of moisture (% saturation) when the switch button is held depressed.

Order #: **30-2** –sold as each

### HOBBYIST SOIL PHD TESTER

The Kelway Soil pHD tests soil acidity to get bigger healthier plants, flowers, fruits, vegetables, trees and lawns. This direct reading soil tester needs no power source and uses no chemicals. Great for indoors or outside. Small, accurate, lightweight, portable, durable, completely safe guaranteed and comes with full easy instructions plus a pH guide chart.

Order #: **30-6** –sold as each

### KELWAY CONDITIONING FILM

Use these sheets to recondition Kelway meters

Order #: **30-1** –sold as each

## MOISTURE, PH & SOIL METERS

### RAPITEST MOISTURE METER

Homeowner quality meter with probe on flexible cord. Instantly tells you when to water your plants.

Order #: **18-0285** –sold as each



### RAPITEST PH METER

Homeowner quality meter checks which plants suit your pH and tells you how to alter soil pH.

Order #: **18-700** –sold as each

### RAPITEST PH POND TESTER

Homeowner quality meter to test the pH of your pond to ensure healthy fish and plants. Acid pond water (low pH) can occur if large quantities of decomposing organic debris are present. Low pH levels cause an increase in pollutants and a shortage of oxygen. Alkaline conditions (high pH) can result from water run-off particularly in hard water areas. High pH levels harm fish and damage plant life. Testing for pH is therefore essential not only before fish are introduced but afterwards as well so that any changes in water conditions are quickly identified and remedied. There are sufficient capsules for 10 tests.

Order #: **18-1912** –sold as each –12 per case



### RAPITEST SOIL TESTER

Homeowner quality meter provided with 5 color coded test tubes and color chart to match to sample results.

Order #: **18-485085** –sold as each

## THERMOMETERS

### TAYLOR DIGITAL MAX-MIN THERMOMETER

Very nice grower quality digital thermometer to record current temperature and last high and low temperature registered since last manual “button push” reset.

Order #: **30-1441** –sold as each

### MAX/MIN THERMOMETER W/MERCURY

Grower quality uses mercury to determine current temperatures on two columns with tracers that register at high and low temperatures until erased with provided magnet.

Order #: **30-60127423** –sold as each

To Order Call: 405.787.4833 or 1.800.522.3376

Prices subject to change without notice

## MAX/MIN RECORDING THERMOMETER

Grower quality uses colored alcohol solution—not as accurate as mercury, but environmentally safer—to determine current temperatures on two columns with tracers that register at high and low temperatures until erased with manual push button on thermometer.

Order #: **30-60125383** –sold as each

## 8 1/2" WALL THERMOMETER

Nice easy to read thermometer that reads current temperature in Fahrenheit and Celsius.

Order #: **30-60149103** –sold as each

## POCKET TEST THERMOMETER

Probe thermometer you can carry in your pocket to read current temperature in Fahrenheit and Celsius.

Order #: **30-60175463** –sold as each

## MINI DIAL THERMOMETER 20/140F

Small round homeowner quality dial thermometer to read current temperature.

Order #: **30-301003** –sold as each

## JUMBO 14 1/2" WALL THERMOMETER

Large 14 1/2" round dial Taylor thermometer to read current temperature.

Order #: **30-60101** –sold as each

## POLYRESIN WALL THERMOMETER

Ornamental round dial Taylor thermometer with gold finch design to read current temperatures.

Order #: **30-4504** –sold as each

## SOIL THERMOMETERS

### 5" STEM/1" DIAL BI METAL THERMOMETER

Taylor probe thermometer to stick in soil or duct to read current temperature.

Order #: **30-8967** –sold as each

### 5 1/2" STEM/2 1/2" DIAL SOIL THERMOMETER

Taylor probe thermometer with large easy to read dial to stick in soil or duct to read current temperature.

Order #: **30-5976** –sold as each

### 12" STEM BI-THERM SOIL THERMOMETER

Taylor probe thermometer that reads current temperature on side of 12" tall stem.

Order #: **30-151000** –sold as each

### 6" DIAL THERMOMETER BIG READ

Taylor dial thermometer to read current temperature on large 6" dial with black on white graphic.

Order #: **30-5353** –sold as each



### RAPITEST SOIL THERMOMETER

Homeowner quality soil meter to read current temperatures.

Order #: **18-1618** –sold as each

## LIGHT METER

### GREEN THUMB LIGHT METER

Homeowner quality meter

Order #: **18-0283** –sold as each

### HYGROMETERS

#### **DIGITAL HUMIDIGUIDE**

Taylor digital instrument to read current temperature and humidity.

Order #: **30-15851** –sold as each

#### **WET/DRY BULB HYGROMETER**

Brannon wet/dry bulb with small water bottle and wick to wrap wet bulb side.

Order #: **30-60132223** –sold as each

#### **HORSEHAIR DIAL HUMIDIGUIDE**

[special order item]

Taylor hygrometer using horsehair for humidity reading.

Order #: **30-1585** –sold as each

#### **MINI COMBO THERMOMETER-HUMIDITY DIAL**

Brannon double dial homeowner quality dial instrument-one dial for humidity and one dial for current temperature.

Order #: **30-300013** –sold as each

#### **12" HUMIDI DIAL THERMOMETER**

Taylor all metal scale to read current temperature and humidity.

Order #: **30-497** –sold as each

#### **TAYLOR INDOOR HUMIDIGUIDE THERMOMETER**

Taylor brand instrument reads 0-100 humidity levels and current temperature.

Order #: **30-134000** –sold as each

### RAIN GAUGES

#### **JUMBO E-Z READ 820-0002 RAIN GAUGE**



The EZREAD rain gauge is just that-a rain gauge that measures rainfall of up to 5 inches and can be read from a distance of up to 50 feet. The EZ-READ is 24 inches tall with a 1 3/4 inches clear tube that has brilliant yellow markings. A contrasting bright orange float rises with the water level and is read by matching the float with the marking on the tube. The tube is calibrated so one inch of rain raises the float 4 inches. This ruggedly constructed and attractively colored rain gauge can easily be mounted on a fence, post or yard stake.

Specially calibrated to insure accuracy. Easy to install, mounting bracket included. Funnel is constructed to prevent debris from entering. Brilliant colors allow reading from up to 50 feet away.

Order #: **30-105100** –sold as each –12 per case

Order #: **30-8200415** –display rack –24 per case

#### **E-Z DEW RAIN GAUGE #820-0101**

the EZDEW makes precise watering of your lawn and garden very EZ to do. Float is visible from 50 feet away. 1/2 inch increments up to 2 inches. Float conveniently snaps onto base for EZ storage.

Order #: **30-19903** –sold as each –12 per case



#### **RAIN DIAL #820-0200**

Unique horizontal scale allows for placement in the ground or on a post. EZ to read float travels up specially timed post to accurately indicate water level. Can be positioned twelve different directions for EZ observation. Removes easily for emptying and cleaning.

Order #: **30-44981** –sold as each –12 per case



#### **RAIN GAUGE-EASY VIEW**

Special magnifying design allows for EZVIEWing with a small size gauge. Linear design that magnifies the rain measurement. Large bold numbers on bracket for EZVIEWing. Bracket mounts to any flat surface.

Order #: **30-55981** –sold as each

Order #: **30-8200180** –display rack –24 per case

To Order Call: 405.787.4833 or 1.800.522.3376

*Prices subject to change without notice*

## BASIC RAIN GAUGE 19937-0

Most basic, inexpensive round tube gauge in plastic holder.

Order #: **30-8200401** –sold as each –24 per case



## RAINFALL SPRINKLER GAUGE

Brannon English brand round funnel gauge with spike

Order #: **30-01300** –sold as each

## ELECTRIC HEATING MATS

### PRO-GROW

Place your flats directly on the heavy rubber mat and get even bottom heat for starting seeds and cuttings. Instructions for use in each carton with mat. Cord 6 ft. long, 200 watts at 120 volts. These “best” grower grade mats must be used with a thermostat control purchased separately. These heavy duty mats have the electrical wires sandwiched between two thick layers of red rubber. It is not unusual to see these mats still in use 10, 15 or 20 years later.



### **22”X22” RUBBER HEAT MAT PM2**

Order #: **32-73008** –sold as each

### **22”X60” RUBBER HEAT MAT PM9A**

Order #: **32-73009** –sold as each

## OLSON



Sprout seeds in as little as two days. Start difficult seeds that require heat. Garden ready transplant in days. Directions

and gardening tips included. Plugs into 120 volt outlet and uses less energy than a 40 watt bulb. Cordset is UL listed. A separate mat thermostat is required to use and control these “better grade” of propagating mats.

### **22” X 22” ELECTRIC OP55 PROPAGATING MAT**

Order #: **32-2055** –sold as each

### **22” X 44” ELECTRIC OP110 PROPAGATING MAT**

Order #: **32-2110** –sold as each

### **22” X 96” ELECTRIC OP175 PROPAGATING MAT**

Order #: **32-2175** –sold as each

## HEATING MAT CONTROLS

### **GC-4 GRO-CONTROL**



To operate up to four propagation mats and control the temperature of all mats as desired to the same temperature. Cord 6 ft. with grounding plug. Heavy duty Pre-grow grower grade construction with pilot light. Has receptacles for 4 mats. 120V-1500W-12.5A res. 1/6 HP ind.

Order #: **32-73010** –sold as each

# GROWING ACCESSORIES

PROPAGATING CHAMBERS & PLANT SLEEVES



## GC-I GRO-CONTROL

To operate any single plug-in propagation mat directly or 2 mats with plug adapter and control the temperature as desired. Cord 6 ft. with series tap plug. Heavy duty Pro-grow grower grade construction. 120V-720W-8A res 1/6 HP ind.

Order #: **32-73011** –sold as each



## PROPAGATING CHAMBERS

### PC-22 PROPAGATING CHAMBER

[special order item]

Heavy duty welded steel frame. Factory paint with stainless steel brackets. Stainless steel shelves. Storage rack for removable door panels. Special low heat, low density electric heaters. Heavy duty swivel casters. Pro-grow “water saver” special design returns condensed moisture to water pan. Capacity: 22 #1020 flats; Electrical: 120VAC-500W-4.2A; Size: 25”x31”x70”; Approximately 200 lbs.

Order #: **30-031** –sold as each



### PC-46 PROPAGATING CHAMBER

[special order item]

Larger version of above Pro-grow chamber. Capacity for 46 #1020 flats; Electrical: 120VAC-875W-7.3A; Size: 25”x51”x70”; Approximately 325 lbs.

Order #: **30-059** –sold as each



## SATIN PLASTIC PLANT SLEEVES

First dimension is sleeve width flat at bottom (B). Second dimension is height (H) of sleeve and third dimension is sleeve width flat at top (T).



### 5.5”B X 14”H X 15”T PLANT SLEEVES

For crops in 4” and 4 1/2” pots

Order #: **40-4RGKV** –case of 2000

### 8”B X 24”H X 20”T 6L-KV PLANT SLEEVES

For crops in 6” and 6 1/2” pots

Order #: **40-082420** –case of 1500

### 8”B X 24”H X 24”T PLANT SLEEVES

For crops in 6” and 6 1/2” pots

Order #: **40-82028** –case of 1000

### 10 1/2”B X 24”H X 22”T PLANT SLEEVES

For crops in 7 1/2” - 8” pots/hanging baskets

Order #: **40-102224** –case of 1000

### 12.5” B X 30”H X 30”T PLANT SLEEVES

For full crops in 10” pots/hanging baskets

Order #: **40-10JUMBO** –case of 700

### 13”B X 22”H X 23”T 10” PLANT SLEEVES

For smaller crops in 10” pots/hanging baskets

Order #: **40-132424**

To Order Call: 405.787.4833 or 1.800.522.3376

Prices subject to change without notice