



Ideal for plant engineers and chemists to check the pH of process, plating and neutralization tanks. Useful in pollution control and water treatment.



POCKET PAL DIGITAL for fast, accurate, easy-to-see readings

- **DISPLAY:** Liquid crystal - Four digits
- **RANGE:** 0-14 pH
- **ACCURACY:** $\pm .2$ pH
- **RESOLUTION:** .01 pH units
- **ADJUSTMENTS:** Calibration & slope
- **TEMPERATURE COMPENSATION:** 0 to 100°C manual
- **HINGED ELECTRODE:** for 90 or 180 degree measurement, replaceable
- **BATTERY OPERATED:** 100 hours of service life from 9V battery
- **INCLUDES:** Polymer body, sealed combination pH electrode with BNC connector, 2 oz. of No. 7 buffer, vinyl case, screwdriver and instruction card.

MODEL pH-2

**PRICE
CODE NO.**

56-0180

The pH Pocket Pal nearly fits in your shirt pocket, has a user replaceable pH electrode, and a 3-1/2 digit 4" high LCD display that gives .01 pH resolution. This rugged Pocket Pal is perfect for general purpose "dip-n-read" pH measurements in the field, production line or lab. The hinged electrode may be used in the 90 degree or 180 degree

measurement position. The "pH Pal" accepts any polymer or glass body combination pH electrode.

Replaceable electrodes 56-0181



COMPACT, WITH LARGE 5.5" SCALE - for lab or plant use

- **TWO SCALES:** 0 - 14 pH and ± 700 millivolt
- **5.5 INCH TAUT-BAND METER**
- **ACCURACY:** .05 pH
- **FRONT PANEL CONTROLS**
- **BATTERY OPERATED**
- **TEMPERATURE COMPENSATION:** 0 TO 100°C
- **INCLUDES:** Sealed combination electrode, filling solution, batteries and instruction manual

MODEL 100

**PRICE
CODE NO.**

56-0032

The most compact portable large meter available today. A full 5.5" taut-band meter and totally solid state electronics will survive severe conditions. Teflon® insulated input circuitry assures accurate readings even under conditions of high humidity. Model 100 has a high gain operational amplifier which insures stable operation in extreme environments. All controls and connectors are conveniently located on the

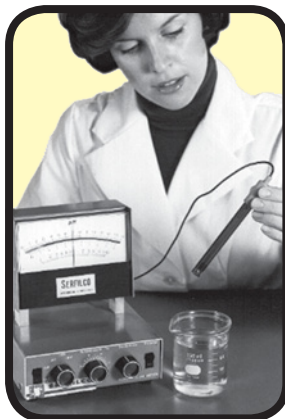
front panel. Model 100 is housed in a heavy gauge aluminum case with baked enamel finish. Input current of less than 2 picoamperes makes possible the use of almost any electrochemical electrode. Electrode impedance may be as high as 1,000 megohms without producing significant error. The ± 700 mv scale is excellent for redox and other electrochemical measurements. Measures 7"H x 2" D x 6" W.

Replacement electrode 56-0412

MODEL 100R

Rechargeable model with NiCd batteries and separate plug-in charger.

56-0032A



HEAVY DUTY - high accuracy laboratory use

- **5.5 INCH METER** with expanded scale
- **ACCURACY:** .05 pH
- **TILTABLE METER**
- **FRONT PANEL CONTROLS**
- **LINE OPERATED:** 115V/1/60
- **RANGE:** 0-14 pH or 1400 mv or **EXPANDED RANGE :** 2 pH or 200 mv full scale
- **REFILLABLE ELECTRODE AND FILLING SOLUTION**
- **RECORDER OUTPUT**

MODEL 140

**PRICE
CODE NO.**

56-0034

Model 140 is a 0 to 14 pH meter with 2 pH expanded scale and millivolt ranges. The 5.5" taut-band meter is in a tiltable housing for convenient viewing. Mirrored scale eliminates parallax problems and is readable to 0.01 pH or 2 mv. The plus and minus mv ranges are switchable with either plus or minus upscale. All controls are on the front panel. Temperature compensation is from 0°C to 100°C and a 10-turn calibration control enables the expanded scale to be set to any 2 pH range

between 0 and 14 pH without range switching. Input current of 2 picoamperes makes possible the use of almost any electrochemical electrode. Millivolt scales are excellent for redox or specific ion measurements. Recorder output 0.100V per pH or 1.0V per 1.0V input. Measures 7"W x 7"D x 8"H. Weight: 3.6 lbs.

Adapter for 230 V supply 56-0414

Replacement electrode 56-0413



GLASS COMBINATION ELECTRODES

Combination electrodes have an all-glass seal design allowing high temperature operation, easier cleaning and less carry over between solutions. The small silver/silver chloride internals provide rapid temperature equilibrium

and the low bulb impedance allows rapid response even at low sample temperatures. These electrodes are designed for all pH meters having a zero potential near pH 7.

NOTE: All electrodes supplied with BNC connectors unless specified otherwise.



Economy glass electrode. Combination design, Refillable. For use with pH meter models 100 & 140. 8 mm dia. x 60 mm immersion length. Range: 0 to 14 pH, -5°C to 80°C

PRICE CODE NO.

PRICE CODE NO.
56-0402



General purpose glass electrode, long. For use with pH meter models 100 and 140. 8 mm dia. x 120 mm immersion length Range: 0 to 14 pH, -5°C to 80°C

PRICE CODE NO.
56-0300



General purpose glass electrode, short. For use with pH meter models 100 and 140. 8 mm dia. x 55 mm immersion length Range: 0 to 14 pH, -5°C to 100°C

PRICE CODE NO.
56-0400



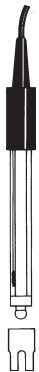
General purpose glass electrode, guarded. Same as 56-0400, but with a removable plastic guard to protect the pH bulb. For use with pH meter models 100 and 140. 8 mm dia. x 55 mm immersion length Range: 0 to 14 pH, -5°C to 100°C

PRICE CODE NO.
56-0401

EPOXY BODY ELECTRODES

Specifically designed for applications where rough handling and breakage are major problems, the bodies of these electrodes are made from impact resistant epoxy tubing. The tubing extends past the pH sensitive glass bulb protecting it from contact with the bottom of sample containers. These are particularly suited for use with portable pH meters in the field and to make spot check measurements of production processes. Also excellent as an all purpose

electrode for those laboratory measurements where glass runs the risk of damage due to handling by a large number of personnel. The gel filled design offers excellent results with minimum maintenance. All polymer electrodes utilize a special formula bulb glass featuring fast response over the range of 0 to 14 pH. Completely shielded for a stable signal while being hand-held, they can be used continuously over the range of 0 to 80°C.



Standard electrode for pH meter 140 or 100. General purpose design with a removable bulb guard for both lab & field. Coaxial ceramic reference wick. 12 mm dia. x 120 mm immersion length. Range: 0 to 14 pH 0°C to 80°C

PRICE CODE NO.
56-0412



Same as 56-0412, except refillable design. General purpose design with a removable bulb guard for both lab & field. Coaxial ceramic reference wick. 12 mm dia. x 120 mm immersion length. Range: 0 to 14 pH 0°C to 80°C

PRICE CODE NO.
56-0413



Rugged filled pH electrode. Durable extra thick polymer wall makes this electrode the first choice for hand held field work. Dual ceramic pin wicks. 13 mm dia. x 110 mm immersion length. Range: 0 to 14 pH 0°C to 80°C

PRICE CODE NO.
56-0403

ACCESSORIES	
	PRICE CODE NO.
Buffer solution - 7.00 pH, pint	56-0405
Electrode filling solution silver/silver-chloride electrode, 2 oz.	56-0406