

Checker1 pH Tester

The Modern Replacement for Litmus Paper

A unique pocket pH meter with a replaceable pH electrode and 0.01 pH resolution the Checker1 offers portable low cost pH measurement. Calibration is simple and can be carried out at 1 or 2 points using a choice of 3 buffers (4.01, 7.01 and 10.01). The meter includes the electrode and a replacement/spare electrode can be ordered separately when required, using the order code P258.

Technical Specification;

Range,pH 0.0 to 14.0 Resolution, pH 0.01 \pm 0.2

Batteries/life 2 x 1.4v./3000 hours approx.

Dimensions (w x d x h), mm 66 x 50 x 25 –meter body

76 x 8mm - electrode.

Weight of meter complete with electrode 63 grams.

P257Hanna Checker1 pH testereachP258Spare electrode Checker1eachB362Spare pack of 6 x 1.4v batterieseach

Piccolo pH Testers



The Piccolo is a revolutionary pH meter with a 4 in 1 "Electrode & Amplifier" design. Conventional pH meters are susceptible to the weak high impedance signal, which makes the electrode, connector, cable and meter delicate and vulnerable, to noise, humidity and dirty environments. Calibration is simple and can be carried out at 2 points using a choice of 3 buffers (4.01, 7.01 and 10.01). Readings are automatically compensated for temperature from 0 to 70°C.

The Piccolo has overcome these problems with a pre-amplified electrode, which delivers a strong signal to the meter. The 4 in 1 interchangeable electrode is inexpensive and rugged and houses the pH sensor, reference system, temperature sensor and the amplifier module.

The Piccolo measures pH wherever necessary. Just switch it on, immerse in the solution and read. Dual point calibration is performed easily through trimmers on the meter's casing.

There are three different piccolo meters in the range:-

Piccolo has a replaceable electrode of length 90mm has a replaceable electrode of length 160mm

Piccolo+ also displays temperature as well as pH readings and has a replaceable

electrode of length 160mm

TIPS

Do not be alarmed if white crystals have formed around the electrode. This is quite normal and the crystals are simply removed by rinsing with water or when conditioning the electrode.

When the electrode is not in use it is **vital** to keep it moist. Store in **S046** storage solution with sufficient solution to cover the junction. If this is not available Buffer pH4.01 is a good alternative.

NEVER store the electrode in Distilled Water

Technical Specification;

Range, pH 0.0 to 13.0

Resolution, pH/°C 0.01 (piccolo+; temperature resolution 0.1) Accuracy, pH/°C \pm 0.01 (piccolo+; temperature accuracy \pm 1)

Compensation Automatic from 0 to 70°C

Batteries/life 3 x 1.4v./100 hours approx. Body Dimensions (w x d x h), mm 194 x 29 x 15

| P252 | Hanna Piccolo pH tester | each |
|------|----------------------------------|------|
| P254 | Spare electrode Piccolo (90mm) | each |
| P253 | Hanna Piccolo2 pH tester | each |
| P255 | Spare electrode Piccolo2 (160mm) | each |
| P493 | Hanna Piccolo+ pH tester | each |
| P494 | Spare electrode Piccolo+ (160mm) | each |
| B362 | Spare pack of 6 x 1.4v batteries | each |

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Hanna pHep pH Testers

Use for on-the spot pH readings with an accuracy of \pm 0.1 pH.

A series of fully immersible (waterproof to IP67) pocket pH testers called pHep meters (pronounced FEP)

pHep 1 pocket pH tester with the benefits of a large LCD display which can be read from any angle, and rugged fully immersible waterproof, ergonomic casing which fits comfortably in the hand. Calibration is two point (2 buffer values 4.01 & 7.01 **or** 7.01 & 10.01) with metal trimmers easily accessible for quick calibration. Batteries are accessible via a slide off cover, the batteries have an approx. 350 hours life.

pHep 2 has automatic temperature compensation and manual calibration at 2 buffer values.

pHep 3 has features you would normally expect to see on a bench pH meter. Microprocessor control gives automatic temperature compensation, automatic calibration with 3 buffer values recognised and a pH stability indicator to ensure accurate readings.

Technical Specification;

Range, pH 0.0 to 14.0 Resolution, pH 0.1 Accuracy, pH \pm 0.1

Temperature Compensation pHep 2 and 3 only: auto from 0 to 50°C

Batteries/life 4 x 1.4v/300/350 hours approx.

Dimensions (w x d x h), mm 150 x 30x 24, weight: 85grams.

P256Hanna pHep1 pH testereachP256/2Hanna pHep 2 pH testereachP256/3Hanna phep 3 pH testereachB362Spare pack of 6 x 1.4v batterieseach



Bench pH Meters

Two bench meters with automatic recognition of 3 buffer solutions and microprocessor controlled calibration for the same price as a portable instrument. Understandably they are two very popular bench pH meters used in a wide range of applications.

Temperature effects are automatically compensated (or manual if preferred) and LCD error codes prompt the user to check the electrode, replace exhausted buffer solutions and so on. Three memorised pH buffer values make calibration quick and easy, (pH 4.01,7.01 & 10.01) and automatic buffer recognition avoids errors during calibration.

Use P263 for pH, temperature and mV for ISE for Redox work or P263/1 if you only wish to read pH and temperature. Meters are supplied complete with a temperature sensor, a plastic bodied, refillable, double junction pH electrode and 12vDC adapter.

Technical Specification;

Range, pH/°C/mV 0.0 to 13.0/ 0 to 100°C / & for P263 only ± 399.9 mV(ISE)

±1999mV(ORP)

Resolution, pH/°C/mV 0.01/0.1°C/ & for P263 only 0.1mV(ISE) 1mV(ORP)

Accuracy, pH/°C/mV \pm 0.01/ \pm 0.4°C / & for P263 only \pm 0.2mV(ISE) \pm 1mV(ORP)

Compensation Automatic from 0 to 100°C

Power supply; 240v mains adapter supplied to give meter requirement of 12v DC.

Body Dimensions (w x d x h), mm 230 x 170 x 70 weight: 1.4Kg

P263Bench pH/mV/°C metereachP263/1Bench pH/°C metereachP264Spare electrodeeachP265Spare temp. probe with 1m cableeachP492Cantilever electrode holdereach





P492 Electrode Holder Holds up to 3 electrodes

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The 2 LCD display allows the bench meter to show pH (or mV) alongside the temperature reading to allow continuous monitoring of both parameters. Temperature compensation is selectable, either manual or automatic and calibration is simple with the meter automatically recognising 5 pH buffer values 4.01, 6.86, 7.01, 9.18 and 10.1. A mV output is standard to allow connection to a plotter or chart recorder if required. To help the user, the LCD will display error codes should an incorrect buffer be used or electrode need replacing. Supplied complete with temperature sensor, glass bodied refillable pH electrode and 12vDC adapter.

Technical Specification;

Range, pH/°C/mV 0.0 to 14.0/ -10 to 125°C / & ±399.9mV(ISE) ±1999mV(ORP)

Resolution, pH/°C/mV 0.01/0.1°C/ & 0.1mV(ISE) 1mV(ORP)

Accuracy, pH/°C/mV \pm 0.01/ \pm 0.5°C / & \pm 0.2mV(ISE) \pm 1mV(ORP) Compensation Automatic from -10 to 125°C or manual from 0 to 100°C

Power supply; 240v mains adapter supplied to give meter requirement of 12v DC.

Body Dimensions (w x d x h), mm 230 x 170 x 70 weight: 1.5Kg

P350Bench dual-reading pH/Temp metereachP351Spare electrodeeachP265Spare temp. probe with 1m cableeachP362Cantilever electrode holdereach

Calibration, Storage & Cleaning Chemicals - pH Electrodes

Buffers SolutionsNIST traceable buffer solutions



| B400 B400/L B400/G | Buffer soln. pH 4.01 Buffer soln. pH 4.01 Buffer soln. pH 4.01 | 460ml 1ltr 1gallon |
|--------------------------|--|--------------------------|
| B400/S | Buffer soln. pH 4.01 sachets | 25 x 20ml |
| B401 | Buffer soln. pH 6.86 | 460ml |
| B402 | Buffer soln. pH 7.01 | 460ml |
| B402/L | Buffer soln. pH 7.01 | 1ltr |
| B402/G | Buffer soln. pH 7.01 | 1gallon |
| B402/S | Buffer soln. pH 7.01 sachets | 25 x 20ml |
| B403 | Buffer soln. pH 9.18 | 460ml |
| B404 | Buffer soln. pH 10.01 | 460ml |
| B404 | Buffer soln. pH 10.01 | 1ltr |
| B404/G | Buffer soln. pH 10.01 | 1gallon |
| B404/S | Buffer soln. pH 10.01 sachets | 25 x 20ml |

Cleaning Solutions

Storage Solutions

| S046 | Storage soln. for pH electrodes | 230ml | C038 | General cleaning | 230ml |
|-----------------------|---------------------------------|------------|--------|-----------------------------|-------|
| S047 | Storage soln. for pH electrodes | 460ml | C038/1 | General cleaning | 460ml |
| | | | C039 | Protein contaminant cleaner | 230ml |
| Electrolyte Solutions | | | C039/1 | Protein contaminant cleaner | 460ml |
| E045 | Electrolyte soln. 3.5M KCI/AgCI | 4 x 30ml | C040 | Inorganic cleaner | 230ml |
| E046 | Electrolyte soln. 3.5M KCI | 4 x 30ml | C040/1 | Inorganic cleaner | 460ml |
| L040 | Electrolyte soni. C.om Nor | 4 X 301111 | C041 | Oil/Grease cleaner | 230ml |
| | | | C041/1 | Oil/Grease cleaner | 460ml |

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Checktemp Thermometers

Two models are available the Checktemp 2 and 3 meters which are pocket thermometers with the unique built-in calibration check device and a folding 110mm long probe – designed to fold at different angles for measurement in difficult places.

The calibration check is achieved by simply clicking a switch, which is housed within the battery compartment – if the unit is in calibration the LCD will display 0.0°C.

Highly accurate, these meters display temperature in $^{\circ}$ C from -20.0 to +120.0 $^{\circ}$ C with an accuracy of 0.3 $^{\circ}$ C (-20 to 90 $^{\circ}$ C).

Checktemp 2 has a Teflon coated, round tip probe suitable for use in stronger acids and alkalis where stainless steel probes could be damaged. **Checktemp 3** has a stainless steel pointed tip probe and is ideal for temperature checking of semi-solid materials.

Technical Specification;

Range °C -20.0 to 120.0

Resolution °C 0.1

Accuracy °C \pm 0.3 (-20 to 90), \pm 0.5 outside these temperatures

Batteries/life 1 x 1.4v./3000 hours approx.
Probe folding 110mm x 3mm diameter

Body Dimensions (w x d x h), mm 150 x 30 x 20 weight; 60gm

T371Checktemp 2 thermometereachT369Checktemp 3 thermometereachB362Spare pack of 6 x 1.4v batterieseach



Hand Held Thermometer

A robust thermistor thermometer with strong On/Off switch and supplied with a professional stainless steel general purpose probe (alternative probes for measurements in liquids and air are also available as accessories – supplied with 1m of cable). In the laboratory the requirement for an accurate digital thermometer at a value for money price has meant that this instrument is exceedingly popular, probes can be interchanged without recalibration, a large LCD provides clear, easy-to-read digits that can be read from any angle.

Technical Specification;

Range °C -40.0 to 150.0

Resolution °C 0.1

Accuracy °C \pm 0.5 full range

Batteries/life 1 x 9v./300 hours approx.

Body Dimensions (w x d x h), mm 180 x 83 x 40 weight; 240gm

T372Hand held thermometer, completeeachT373Air/Gas probe type HI 765AeachT374Air wire probe type HI 765WeachT200/BBattery PP9 – 9 volt, pack of 5each



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