Electrodes pH

Selecting the right pH electrode

Selecting the right pH electrode for an application can make all the difference to the response time, accuracy and life of your electrode.

To get the best out of your electrode, consider the following points before you make your choice:

General purpose

electrodes are suitable for aqueous solutions with a relatively high water content and either no aggressive substances, or relative low concentrations.

If you are working with solutions containing heavy metals, proteins or TRIS buffers, a **calomel electrode** or one with a **double junction** will give you the best results.

For solutions that contain oils, paints or food products, select a **PTFE junction** or **junction free** electrode for best results.

Last but not least, think about the **temperature of the solution** as not all electrodes can withstand the same temperature range. This is especially important if the solution to be measured is above 60°C.

The electrodes featured on these pages offer a small selection from our range of over 100. If you can't find what you are looking for or would like advice on choosing the best electrode, why not contact us direct? We'll be happy to help.

pH • pH • pH • pH • pH



Ideal for field use HI 1230B

diam: 12mm

length: 120mm temp: 20 to 40°C

Good all-rounder for general pH measurement; plastic body good for field use

General purpose HI 1131B

diam: 8mm length: 210mm temp: 20 to 40°C

Glass body equivalent of HI 1332B – good general purpose glass laboratory electrode

Use on flat surfaces HI 1413B

diam: 12mm length: 50mm temp: 20 to 40°C

Flat tipped glass body electrode ideal for taking pH of flat surfaces such as paper, leather, skin



Ideal for chemicals HI 1332B

diam: 12mm length: 120mm temp: 20 to 40°C

Plastic body electrode with double reference junction good for chemical applications Perfect for the laboratory HI 1110B

diam: 12mm length: 150mm temp: 20 to 40°C

Gel filled glass body general purpose electrode for laboratory use



Ideal for high humidity HI 2910B

diam: 12mm length: 110mm temp: -5 to +80°C

Amplified electrode with own power supply eliminates problems associated with damp and signal loss

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Electrodes

Laboratory



Ideal for education HI 1333B

diam: 12mm length: 120mm temp: 20 to 40°C

Plastic body electrode probe ideal for education with double junction and refillable to ensure longer life

Ideal for Tris buffers HI 1043B

diam: 12mm length: 120 mm temp: 30 to 85°C

Glass body electrode ideal for tris buffer use, strong acid or alkaline solutions, high conductivity samples

Ideal for semi-solids HI 1053B

diam: 12mm length: 120mm temp: -5 to +30°C

Conical tipped glass body electrode with triple junction good for low conductivity solutions, emulsions, semi-solid products

Ideal for small sample sizes HI 1083B

diam: 3mm length: 120mm temp: 20 to 40°C

Thin bodied glass electrode is ideal for small sample sizes such as in biotechnology applications <100 uL

For use with NMR tubes HI 1093B

diam: 3mm length: 130mm temp: 20 to 40°C

Extra long/thin body glass electrode for use in NMR tubes







Perfect for long neck flasks HI 1331B

diam: 8mm length: 210mm temp: 20 to 40°C

210mm long glass electrode for use in long neck flasks ie:- it's long enough to reach the bottom and get to the sample!

Ideal for dairy products FC240B

diam: 5mm length: 150mm temp: 20 to 40°C

Stainless steel bodied glass spear electrode only 5mm long - ideal for dairy products and soft and semi-solid cheese testing

Perfect for semi-solid foods FC200B

diam: 6mm length: 75mm temp: 20 to 40°C

Spear pointed PTFE body with glass tip food electrode ideal for milk, yoghurt, soft cheese and other semi solid foods – easy to clean

Ideal for dairy products FC100B

diam: 12mm length: 120mm temp: 20 to 40°C

PTFE bodied food electrode for general purpose dairy product testing eg milk, yoghurt

Redox /ORP

General purpose ORP/Redox electrode HI 3230B

diam: 12mm length: 120mm temp: 20 to 40°C

Glass body ORP/Redox probe for use with pH meters with a mV volt scale

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