

PLASTIC LABORATORY pH ELECTRODES

PRODUCT SPECIFICATION SHEET



pH1000
Basic

pH1600
Basic



pH2000
Advanced (Classic Bulb)



pH2100
Advanced (Flat Tip)



pH2200
Advanced (Spear Tip)



pH3000
Research Grade

Choose basic, advanced, or premium options based on your application

Virtually unbreakable with durable polycarbonate or Ultem® bodies

Compatible with any meter accepting a BNC

Accurate and reliable measurements across full pH scale (0-14)

Instantly ready for use: Extended shelf life (guaranteed for one year)

One year limited warranty

The right sensor makes the difference.

Choosing a sensor that is well-suited for your application will improve measurement accuracy and extend sensor lifetime. Select from basic, advanced, and research grade pH sensors to find the option that meets your application needs.

pH1000 Series (Basic): The pH1000 polycarbonate pH sensor is easy to use and stands up to the usual wear and tear. This sensor performs reliably in environments such as swimming pools and hydroponics. New to the pH1000 series is model pH1600 for those who require a more chemically resistant body material.

pH2000 Series (Advanced): The pH2000 series of Ultem® pH sensors offers enhanced chemical compatibility. Great for testing samples with unknown composition, such as wastewater, these sensors feature double junction reference protection and operate at temperatures up to 80°C.

pH3000 Series (Research Grade): Our pH3000 series Ultem® pH electrodes are designed for maximum accuracy and sensor lifetime. These research grade probes stand up to aggressive chemicals and temperatures up to 100°C. The refillable design is excellent for precision measurements, even in low ionic samples.

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SPECIFICATIONS

BASIC

pH1000 Series

Reference	Sealed
Junction Number	Single (1)
Junction Material	Pellon
Reference Solution	3.5 M KCl/AgCl (gel)
Glass Shape	Bulb
Body Material	Polycarbonate, Ultem (pH1600 only)
Temperature Range	0-60 degrees C, 0-80 degrees C (pH1600 only)
Strain Relief	No
BNC Boot	No
Bulb Protection	Slots, teeth (pH1600 only)

UNIVERSAL

All Plastic Laboratory pH Electrodes

Diameter	12mm
Length	150mm
pH Range	0 - 14 (Na ⁺ error at 12.3 < pH)
Response	95% in 1 second (bulb glass shape) 95% in 5 seconds (flat glass shape) 90% < in 5-7 seconds (spear glass shape)
Isopotential Point	7.00 pH (0 mV)
Offset	± 0.20 pH
Span	97% of theoretical or higher

ADVANCED

pH2000

Reference	Sealed
Junction Number	Double (2)
Junction Material	Pellon
Reference Solution	3.5 M KCl/AgCl/KNO ₃ (gel)
Glass Shape	Bulb
Body Material	Ultem®
Temperature Range	0-80 degrees C
Strain Relief	No
BNC Boot	Yes
Bulb Protection	Teeth

pH2100

Reference	Sealed
Junction Number	Double (2)
Junction Material	HDPE and Pellon
Reference Solution	3.5 M KCl/AgCl/KNO ₃ (gel)
Glass Shape	Flat
Body Material	Ultem®
Temperature Range	0-80 degrees C
Strain Relief	No
BNC Boot	Yes

pH2200

Reference	Sealed
Junction Number	Double (2)
Junction Material	Kynar and Pellon
Reference Solution	3.5 M KCl/AgCl/KNO ₃ (gel)
Glass Shape	Spear
Body Material	Ultem®
Temperature Range	0-80 degrees C
Strain Relief	No
BNC Boot	Yes

RESEARCH GRADE

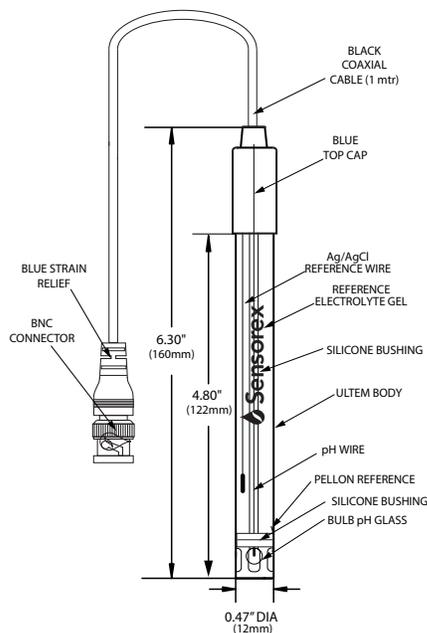
pH3000

Reference	Refillable
Junction Number	Double (2)
Junction Material	Ground Epoxy and pHASE
Reference Solution	3.5 M KCl (liquid)
Glass Shape	Bulb
Body Material	Ultem®
Temperature Range	0-100 degrees C
Strain Relief	Yes
BNC Boot	Yes
Bulb Protection	Removable Guard

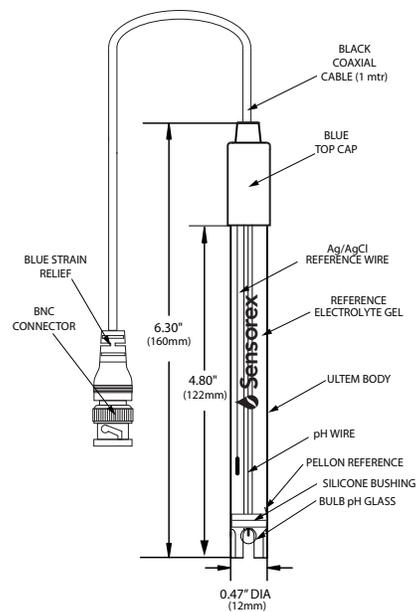
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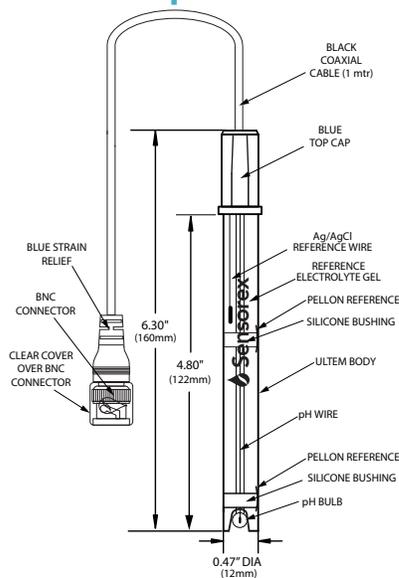
OUTLINES AND DIMENSIONS



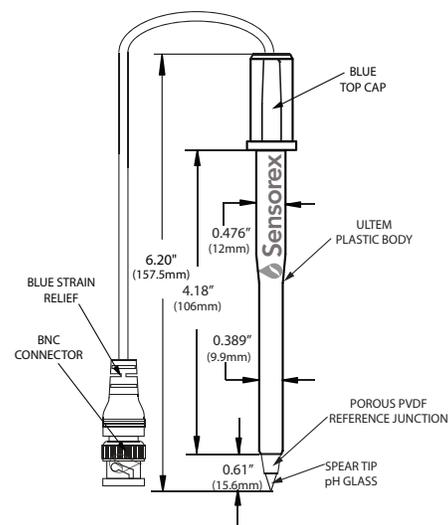
pH1000



pH1600



pH2000



pH2200

ORDERING INFORMATION

Part Number **Description**

pH1000 Single junction, sealed polycarbonate pH electrode

pH1600 Single junction, sealed Ultem® pH electrode

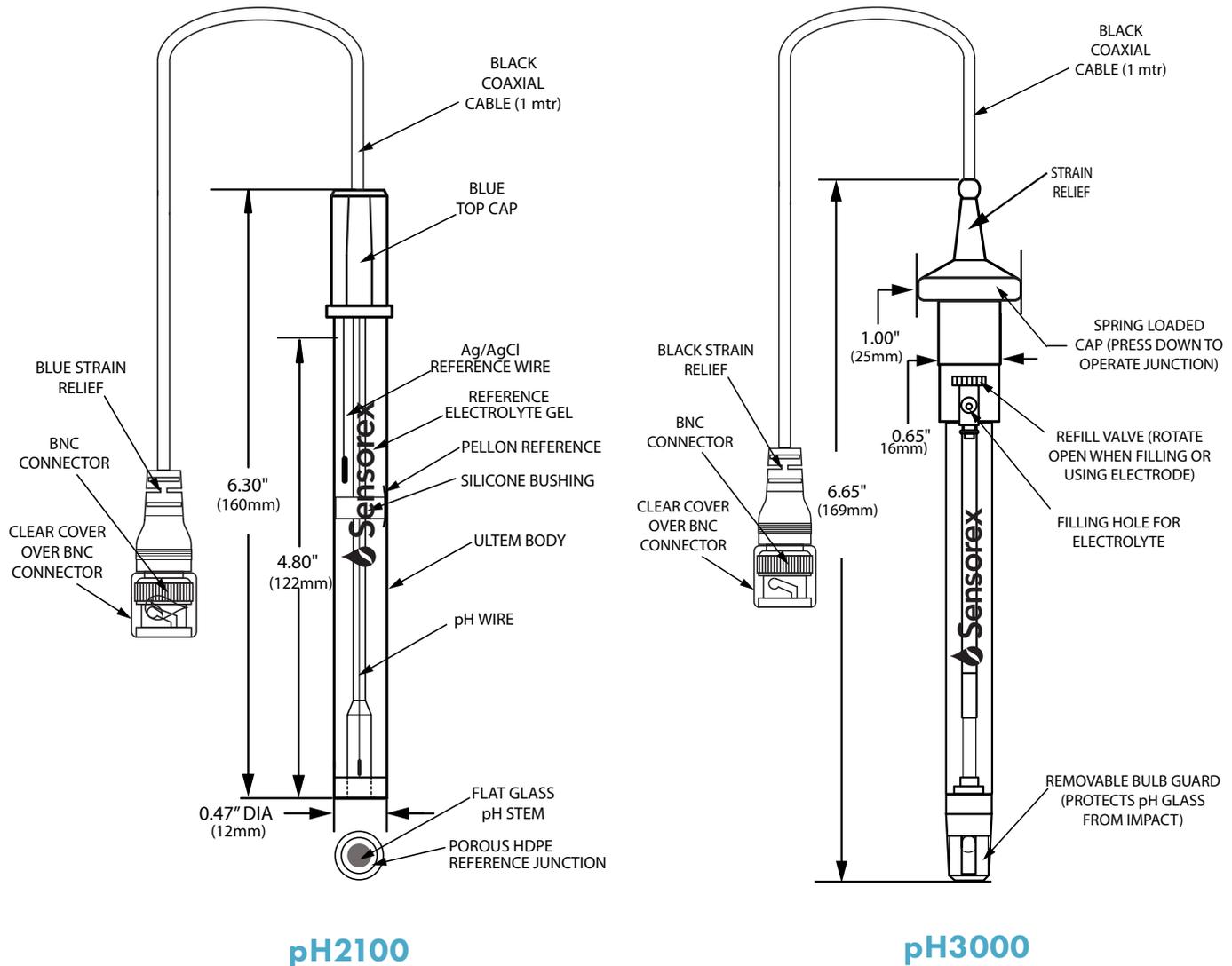
pH2000 Double junction, sealed Ultem® pH electrode

pH2200 Double junction, sealed Ultem® pH electrode with spear tip for food and soil applications

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OUTLINES AND DIMENSIONS



ORDERING INFORMATION

Part Number Description

pH2100	Double junction, sealed Ultem® pH electrode with flat measurement surface for specialty applications
pH3000	High accuracy, research grade double junction refillable Ultem® pH electrode