



Dear Water Quality Selling Partner,

YSI is pleased to announce the release of the YSI Model 111-1 piercing tipped pH electrode for use with the YSI Model pH100 instrument.

This electrode enables pH measurement in applications not possible of the standard glass bulb electrodes. pH measurements in non-traditional applications from cheese to sausage to grapes has been requested and now we can meet our customers needs.

We look forward to mutual success in introducing this exciting new product!

Sincerely,

Tim Grooms  
Product Manager,  
Water Quality and  
Aquaculture Products

To order or for more information, contact YSI Environmental.

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## Piercing Tipped pH Electrode for the pH100 Instrument



Model 111-1 Electrode

The 111-1 pH electrode allows for the measurement of pH in any medium requiring a rugged, piercing style tip. This probe and cable are designed to be used with the YSI Model pH100 instrument. The cable conveniently detaches from the instrument to allow other YSI electrode styles to be attached to match a customer's application needs.

The piercing style probe is ideal for semi-solid materials like meat, cheese, soils, and yogurt. The extremely durable glass measuring spear-shaped tip is packaged in a rugged, virtually unbreakable epoxy body. This probe features a **double junction** reference design protecting it from contaminated samples. It provides extended service life even when used with samples containing silver ions. The junction utilizes an extended surface area semi-porous PVDF thermoplastic to provide excellent sample contact.

- Rugged piercing style tip
- Waterproof 3-foot cable
- Double-junction provides excellent barrier against reference side contamination
- Quick response

### Ordering Information

YSI Part Number	605080
YSI Model Number	111-1
US List Price	\$97.00

### Technical Specifications for pH Electrode

pH range	0.0 to 14.0 pH units
Type	Piercing tip; Ag/AgCl gel filled reference, double junction electrode
Operating temperature range	32° to 212°F (0° to 100°C)
Operating pressure range	0 to 100 PSIG
Water resistance	IP-67 waterproof rating to connector; connector water resistant
Sensor output	0 mV +/- 20 mV @ 25°C (in pH 7 buffer)
Sensor slope	170 to 181 mV (pH 4 to pH 7 buffer)
Sensor response time	95% of reading in 3 seconds from soak solution to pH 7 buffer @ 25°C
Cable length	3 feet (950 mm)