

Solid-state pH probes

For Big Kahuna and Junior

This automated solid-state sensor technology rapidly measures pH for a wide range of solutions on Big Kahuna and Junior. The measurements and cleaning of the probes are fully automated and come in two flavors: a single pH probe and multi channel pH probes that measure in parallel.

Specifications

Solid-state single pH probe (PN: F161891) and multi channel pH probes (PN: F160086)



Description	Specification
Measurement time per sample	<30 s
Measurement time per 96-well plate for multi channel pH probes	<90 min
pH ranges	1–13 pH units
Resolution of pH measurement	0.05 pH units
Repeatability across 10 sequential measurements	±0.1 pH units
Accuracy	±0.2 pH units*
Operational temperature range	5–50 °C
Minimum sample volume	<ul style="list-style-type: none"> • 125 µL in 96-well, PCR plate (e.g. Greiner Bio-One) • 275 µL in flat-bottom, 96-well assay plates (e.g. Corning) • 350 µL in 96-square-well, V-bottom storage plates (e.g. Greiner Bio-One) • For other types of plates or vials, the minimum sample volume is the volume required to fully submerge the probe reference electrodes (white dots on side of each probe).
Vial spacing for multi channel pH probes	9 mm, 13 mm

*Value varies with specific buffer system