

# Rugged pH and ORP Electrodes

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pH

electrodes

Code	HI1332 [ ]	HI3230 [ ]	HI4430 [ ]
Description	pH electrode	gel-filled, combination ORP electrode w/ platinum contact	gel-filled, combination ORP electrode w/ gold contact
Reference	double, Ag/AgCl	single, Ag/AgCl	single, Ag/AgCl
Junction / Flow Rate	ceramic, single / 15-20 µL/h	ceramic, single	ceramic, single
Electrolyte	KCl 3.5M	gel	gel
Max Pressure	0.1 bar	2 bar	2 bar
Range	pH: 0 to 13	ORP: ±2000 mV	ORP: ±2000 mV
Recommended Operating Temp.	0 to 70°C (32 to 158°F) - GP	-5 to 70°C (23 to 158°F)	-5 to 70°C (23 to 158°F)
Tip / Shape	spheric (dia: 7.5 mm)	platinum pin	gold pin
Temperature Sensor	no	no	no
Amplifier	no	no	no
Body Material	PEI	PEI	PEI
Cable	coaxial; 1 m (3.3')	coaxial; 1 m (3.3')	coaxial; 1 m (3.3')
Recommended Use	chemicals, field applications, quality control	municipal water, quality control	oxidants, ozone
Connection	<b>HI1332B</b> BNC <b>HI1332P</b> BNC + pin* <b>HI1332D</b> DIN	<b>HI3230B</b> BNC <b>HI3230D</b> DIN	<b>HI4430B</b> BNC <b>HI4430D</b> DIN

\* For pH meters with CAL Check™ system