

Combination Electrodes



Code	HI1131[]	HI1135B	HI1143[]	HI1331B
Description	refillable, combination pH electrode	refillable, combination pH electrode w/ side arm construction and fast flow rate	refillable, combination pH electrode for fluoride applications	combination pH electrode
Reference	double, Ag/AgCl	double, Ag/AgCl	double, Ag/AgCl	single, Ag/AgCl
Junction / Flow Rate	ceramic, single / 15-20 µL/h	ceramic, double / 30-40 µL/h	ceramic, single / 15-20 µL/h	ceramic, single / 15-20 µL/h
Electrolyte	KCl 3.5M	KCl 3.5M	KCl 3.5M	KCl 3.5M + AgCl
Max Pressure	0,1 bar	3 bar with back pressure	0,1 bar	0,1 bar
Range	pH: 0 to 13	pH: 0 to 14	pH: 0 to 10	pH: 0 to 13
Recommended Operating Temp.	0 to 100°C (32 to 212°F) – HT	0 to 100°C (32 to 212°F) – HT	-5 to 60°C (23 to 140°F) – HF	0 to 70°C (32 to 158°F) – GP
Tip / Shape	spheric (dia: 9,5 mm)	spheric (dia: 9,5 mm)	spheric (dia: 9,5 mm)	spheric (dia: 7,5 mm)
Temperature Sensor	no	no	no	no
Amplifier	no	no	no	no
Body Material	glass	glass	glass	glass
Cable	coaxial; 1 m (3,3')	coaxial; 1 m (3,3')	coaxial; 1 m (3,3')	coaxial; 1 m (3,3')
Recommended Use	laboratory general purpose, beer	continuous monitoring with remote filling	samples with fluoride (max 2 g/L @ pH 2 and temperature < 60°C)	specific for flasks
Connection	HI1131B BNC HI1131P BNC + pin* HI1131D DIN	HI1135B BNC	HI1143B BNC HI1143D DIN	HI1331B BNC

* For pH meters with CAL Check™ system