

Combination Electrodes



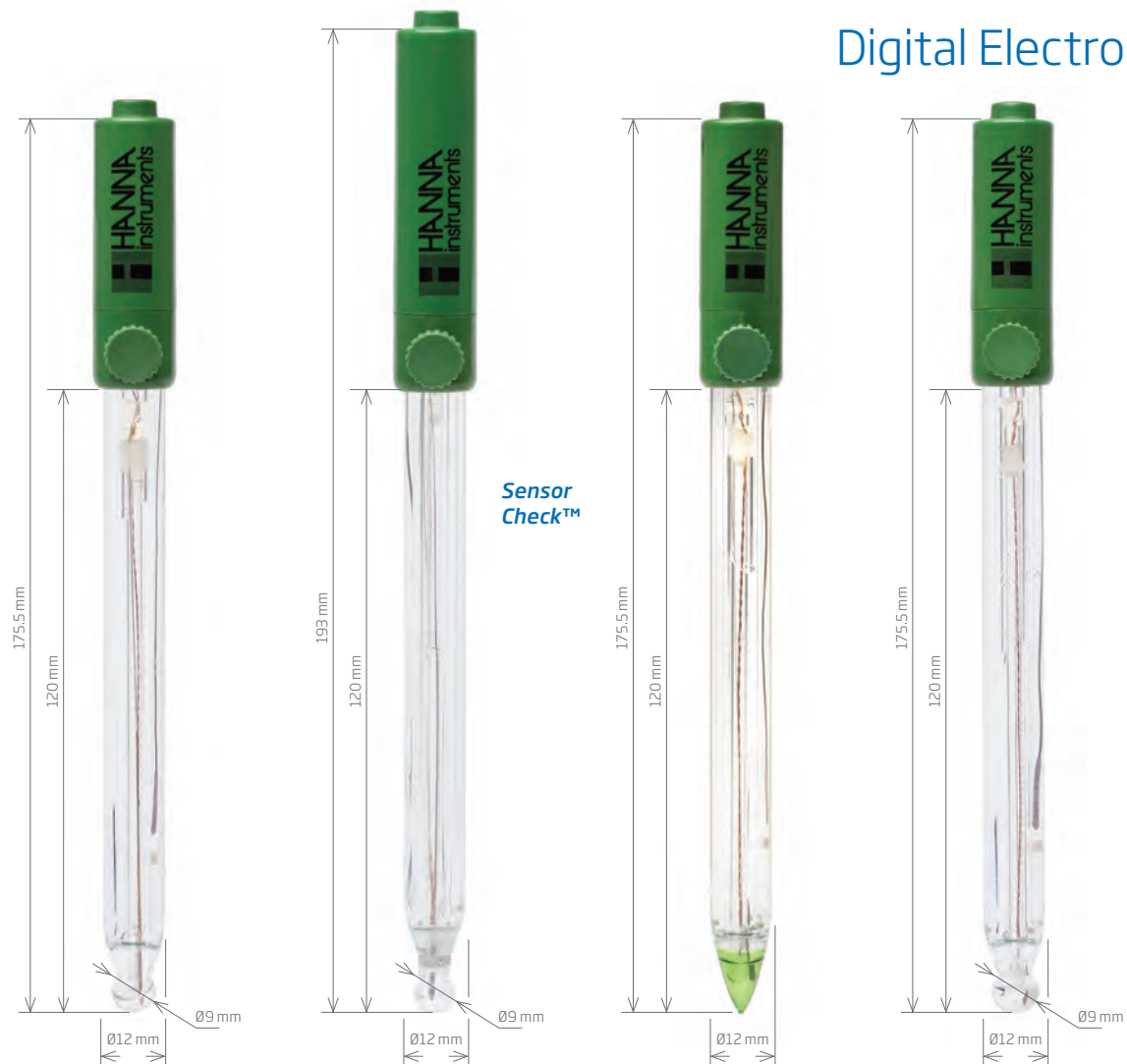
Code	HI1131[]	HI1151B	HI1135B	HI1143B
Description	refillable, combination pH electrode	refillable, combination pH electrode	refillable, combination pH electrode w/ side arm construction and fast flow rate	refillable, combination pH electrode for fluoride applications
Reference	double, Ag/AgCl	double, Ag/AgCl	double, Ag/AgCl	double, Ag/AgCl
Junction / Flow Rate	ceramic, single / 15-20 µL/h	ceramic, single / 15-20 µL/h	ceramic, double / 30-40 µL/h	ceramic, single / 15-20 µL/h
Electrolyte	KCl 3.5M	–	KCl 3.5M	KCl 3.5M
Max Pressure	0.1 bar	0.1 bar	3 bar with back pressure	0.1 bar
Range	pH: 0 to 13	pH: 0 to 13	pH: 0 to 14	pH: 0 to 10
Recommended Operating Temp.	0 to 100°C (32 to 212°F) – HT	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
Tip / Shape	spheric (dia: 9.5 mm)	spheric (dia: 9.5 mm)	spheric (dia: 9.5 mm)	spheric (dia: 9.5 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	non-aqueous titration	continuous monitoring with remote filling	samples with fluoride (max 2 g/L @ pH 2 and temperature < 60°C)
Connection	HI1131B BNC HI1131P BNC + pin*	HI1151B BNC	HI1135B BNC	HI1143B BNC

* For pH meters with CAL Check™ system

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Code	HI11310	HI11311	HI10530	HI10430
Description	refillable, combination, digital pH electrode	refillable, combination, digital pH electrode w/ Sensor Check™	refillable, combination, digital pH electrode with conical tip	refillable, combination, digital pH electrode with double junction
Reference	double, Ag/AgCl	double, Ag/AgCl	double, Ag/AgCl	double, Ag/AgCl
Junction	ceramic, single / 15-20 µL/h	ceramic, single / 15-20 µL/h	ceramic, triple / 40-50 µL/h	ceramic, triple / 40-50 µL/h
Electrolyte	KCl 3.5M	KCl 3.5M	KCl 3.5M	KCl 3.5M
Max Pressure	0.1 bar	0.1 bar	0.1 bar	0.1 bar
Range	pH: 0 to 13	pH: 0 to 13	pH: 0 to 13	pH: 0 to 13
Recommended Operating Temp.	-5 to 100°C (23 to 212°F) - HT	-5 to 100°C (23 to 212°F) - HT	-5 to 100°C (23 to 212°F) - LT	-5 to 100°C (23 to 212°F) - HT
Tip /Shape	spheric (dia: 9.5 mm)	spheric (dia: 9.5 mm)	conic (12 x 12 mm)	spheric (dia: 9.5 mm)
Temperature Sensor	yes	yes	yes	yes
Matching Pin	no	yes	no	no
Amplifier	yes	yes	yes	yes
Body Material	glass	glass	glass	glass
Cable	1 m (3.3')	1 m (3.3')	1 m (3.3')	1 m (3.3')
Recommended Use	laboratory general purpose, beer	laboratory general purpose, beer	fats and creams, soil samples, potable water, semi-solid products, low conductivity solutions, emulsions	potable water, paints, low conductivity solutions
Connection	HI11310 3.5 mm connector	HI11311 3.5 mm connector	HI10530 3.5 mm connector	HI10430 3.5 mm connector

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