

HI4004 · HI4104 · HI4105 · HI4007 · HI4107

# Ion Selective Electrodes

Calcium · Carbon Dioxide · Chloride



Parameter	Calcium		Carbon Dioxide	Chloride	
Code	<b>HI4004</b>	<b>HI4104</b>	<b>HI4105</b>	<b>HI4007</b>	<b>HI4107</b>
Type	polymer membrane; half-cell	polymer membrane; combination	gas-sensing; combination	solid-state; half-cell	solid-state; combination
Measurement Range	1M to $3 \cdot 10^{-6}$ M 40080 to 0.12 mg/L (ppm)		$1 \cdot 10^{-2}$ M to $1 \cdot 10^{-4}$ M 440 to 4.4 mg/L (ppm)	1M to $5 \cdot 10^{-5}$ M 35500 to 1.8 mg/L (ppm)	
Optimum pH Range	4 to 10	4 to 10	4.2 to 5.2	2 to 11	2 to 11
Temperature Range	0 to 40°C	0 to 40°C	0 to 40°C	0 to 80°C	0 to 80°C
Approximate Slope	+28	+28	+54	-56	-56
Body O.D.	12 mm	12 mm	12 mm	12 mm	12 mm
Insertion Length	120 mm	120 mm	120 mm	120 mm	120 mm
Body Material	epoxy/PVC	PEI/PVC	Delrin®	epoxy	PEI
Cable	1 m coaxial	1 m coaxial	1 m coaxial	1 m coaxial	1 m coaxial
Possible Applications	determination of free calcium in beverages, water, and seawater		determination of carbonates as CO <sub>2</sub> in water, soft drinks and wine samples	determination of free chloride ions in emulsified food products, beverages, plants, soils and as an indicator for titration	
Connection	BNC	BNC	BNC	BNC	BNC