

Salinity and Sodium Content Meters



- HI 931100 measures four salinity ranges
- Tutorial messages on LCD display
- Calibration reminder
- Displays parameter and temperature readings simultaneously
- Automatic calibration
- Dual-level LCD

HI 931100 is an ion-selective meter that uses a sodium electrode to read the salt (NaCl) content of a solution. This powerful instrument has four ranges, capable of measuring concentrations from 0.150 g/L to 300 g/L.

HI 931100 auto ranges from sample to sample over an extremely broad range without the need for recalibration.

HI 931101 uses the FC 300B combination sodium electrode (not included) to give you sodium readings from 15.0 mg/L to 60 g/L. The calibration process is automatic at 2 points, the first is at 2.3 g/L while the second can be either at 0.23 g/L (low range) or at 23.0 g/L (high range).

A separate temperature probe, HI 7662, provides temperature readings from -20 to 120°C.

SPECIFICATIONS		HI 931100	HI 931101
Range	NaCl	0.150 to 1.500 g/L NaCl; 1.50 to 15.00 g/L NaCl; 15.0 to 150.0 g/L NaCl; 150 to 300 g/L NaCl	0.00 to 3.00 pNa; 15.0 to 150.0 mg/L (ppm) Na; 0.150 to 1.500 g/L Na; 1.50 to 15.00 g/L Na; 15.0 to 60.0 g/L Na
	°C	-20.0 to 120.0°C (-4.0 to 248.0°F)	
Resolution	NaCl	0.001 g/L NaCl; 0.01 g/L NaCl; 0.1 g/L NaCl; 1 g/L NaCl	0.01 pNa; 0.1 mg/L Na; 0.001 g/L Na; 0.01 g/L Na; 0.1 g/L Na
	°C	0.1°C (0.1°F)	
Accuracy (@20°C)	NaCl	±5% of reading (NaCl)	±0.05 pNa; ±5% of reading (Na)
	°C	±0.2°C (±0.4°F) (excluding probe error)	
Calibration		automatic, one or two point at 0.30 g/L (HI 7085) 3.00 g/L (HI 7083) 30.0 g/L (HI 7081)	automatic, one or two point at 0.23 g/L (HI 7087/HI 8087) 2.3 g/L (HI 7080/HI 8080) 23.0 g/L (HI 7086/HI 8086)
	Temperature Compensation	fixed at 25°C (77°F)	
Electrode	FC 300B glass body sodium ion electrode with BNC connector and 1 m (3.3') cable (not included)		
Temperature Probe	HI 7662 stainless steel temperature probe with 1 m (3.3') cable (not included)		
Input Impedance	10 ¹² Ohm		
Battery Type / Life	1.5V AAA (3) / approx. 200 hours of continuous use		
Environment	0 to 50°C (32 to 122°F); RH max 100%		
Dimensions	185 x 72 x 36 mm (7.3 x 2.8 x 1.4")		
Weight	300 g (10.6 oz.)		

ORDERING INFORMATION

HI 931100 and HI 931101 are supplied with batteries, instructions and hard carrying case.

ELECTRODES

- FC 300B** Glass body sodium ion electrode with BNC connector and 1 m (3.3') cable
- HI 7662** Stainless steel temperature probe with 1 m (3.3') cable

SOLUTIONS

- HI 7080L** 2.3 g/L Na solution, 500 mL
- HI 7081L** 30 g/L NaCl solution, 500 mL
- HI 7083L** 3 g/L NaCl solution, 500 mL
- HI 7085L** 0.3 g/L NaCl solution, 500 mL
- HI 7086L** 23.0 g/L Na solution, 500 mL
- HI 7087L** 0.23 g/L Na solution, 500 mL
- HI 7090L** ISA solution, 500 mL

ACCESSORIES

- HI 76405** Electrode holder
- HI 721317** Rugged carrying case

For a complete list of Solutions and Electrodes, see the end of this Section.