



Waterproof Instruments for Salinity and Sodium Content Measurement

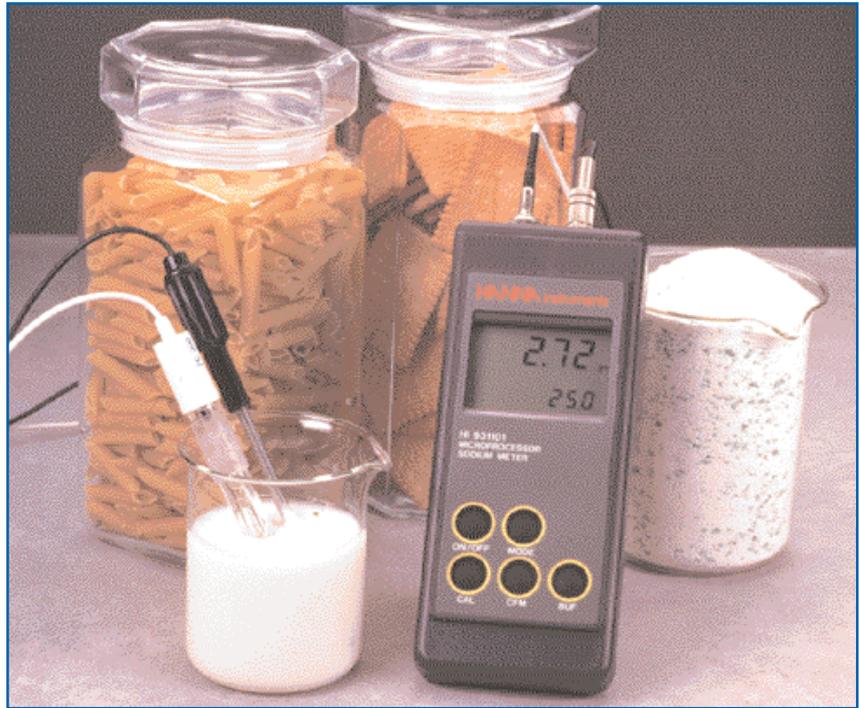
HANNA instruments® has designed these two rugged waterproof salinity and sodium meters for regular use in the lab, as well as in harsh processing environments.

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, allowing measurements in concentrations from 0.150 g/L to 300 g/L.

HI 931100 autoranges from sample to sample allowing an extremely wide range of measurements without recalibration.

HI 931101 employs 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 0 to 80°C.



Specifications

| | HI 931100 | HI 931101 |
|---------------------------------|---|---|
| Range | NaCl (g/L): 0.150 to 1.500; 1.50 to 15.00; 15.0 to 150.0; 150 to 300; °C: 0.0 to 80.0 | pNa: 0.00 to 3.00; Na (mg/L): 15.0 to 150.0; Na (g/L): 0.150 to 1.500; 1.50 to 15.00; 15.0 to 60.0; °C: 0.0 to 80.0 |
| Resolution | NaCl (g/L): 0.001; 0.01; 0.1; 1; °C: 0.1 | pNa: 0.01; Na: 0.1 mg/L; 0.001/0.01/0.1 g/L; 0.1°C |
| Accuracy (@20°C) | NaCl: ±5% of reading; °C: ±0.5 | pNa: ±0.05; Na: ±5% of reading; °C: ±0.5 |
| Calibration | automatic, 1 or 2 point at 3.00 g/L (HI 7083) and 0.30 g/L (HI 7085) or 30.0 g/L (HI 7081) | automatic, 1 or 2 point at 2.3 g/L (HI 7080) and 0.23 g/L (HI 7087) or 23.0 g/L (HI 7086) |
| Temperature Compensation | 25°C | |
| Electrode | FC 300B combination sodium electrode with BNC connector and 1 m (3.3') cable (not included) | |
| Temperature Probe | HI 7662 temperature probe with 1 m (3.3') cable (not included) | |
| Input Impedance | 10 ¹² Ohm | |
| Battery Type / Life | 4 x 1.5V AA / approx. 200 hours of continuous use | |
| Environment | 0 to 50°C (32 to 122°F); RH max 100% | |
| Dimensions | 196 x 80 x 60 mm (7.7 x 3.1 x 2.4") | |
| Weight | 500 g (1.1 lb.) | |

Ordering Information

HI 931100 is supplied complete with batteries, rugged carrying case and instructions.

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Accessories

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|-----------|---|----------|--------------------------------------|
| FC 300B | Combination sodium electrode with BNC connector | HI 7083L | 3 g/L NaCl solution, 500 mL bottle |
| HI 7662 | Temperature probe | HI 7085L | 0.3 g/L NaCl solution, 500 mL bottle |
| HI 76405 | Electrode holder | HI 7086L | 23.0 g/L Na solution, 500 mL bottle |
| HI 721317 | Rugged carrying case | HI 7087L | 0.23 g/L Na solution, 500 mL bottle |
| HI 7080L | 2.3 g/L Na solution, 500 mL bottle | HI 7090L | ISA solution, 500 mL bottle |
| HI 7081L | 30 g/L NaCl solution, 500 mL bottle | | |

For a complete range of calibration, cleaning and maintenance solutions, see section F. For electrodes, see section E. For accessories, see section U.