



## Test the Hardness of Water

The **pNa** is an easy-to-use and inexpensive instrument for determining water hardness/softness. The hardness of water is due to the presence of magnesium and calcium. These make washing difficult, waste soap and create unpleasant scum and scale. With a zeolite system, the calcium and magnesium ions are substituted on a one-to-one basis with sodium ions from a resin. Once all the sodium ions are exhausted, the resin has to be regenerated. This is currently determined by estimating the volume of water that goes through the softener and guessing when to change the resin!

Even though this may work in some cases, it fails in most since the sodium content of feed water is never constant. As a result, either the resin is regenerated too early, waste of resources, or too late, causing damage due to scaling. With the **pNa**, you can measure the sodium content of feed water and exit water in seconds. When the resin is exhausted of sodium, there will be no exchange and the pNa will read the same value at the two ends. Only then should the resin be changed. **pNa** takes guess work out of resin regeneration!

### Specifications

HI 98202 pNa	
Range	0.0 to 3.0 pNa (23 to 0.023 g/L Na <sup>+</sup> )
Resolution	0.1 pNa
Accuracy (@20°C/68°F)	±0.2 pNa
Calibration	manual, 1 point
Battery Type / Life	4 x 1.5V / approx. 800 hours of continuous use
Environment	0 to 50°C (32 to 122°F); RH max 95%
Dimensions	175 x 41 x 23 mm (6.9 x 1.6 x 0.9")
Weight	95 g (3.4 oz.)

### Accessories

HI 73202	Spare electrode for HI 98202 and HI 98203, to be substituted by authorized technical personnel only	HI 7080L	2.3 g/L Na <sup>+</sup> solution, 500 mL bottle
HI 7080M	2.3 g/L Na <sup>+</sup> solution, 230 mL bottle	HI 7061M	Cleaning solution, 230 mL bottle

### Ordering Information

HI 98202 (pNa) is supplied complete with protective cap, calibration screwdriver, batteries and instructions.

For a complete range of calibration, cleaning and maintenance solutions, see section F.