



SP510 Hardness Analyser (1 mg/L trip point)

Product #: 5410001

ZAR Price: Contact Hach

Ships within 2 weeks

Maximise your softener cycle time and minimise your regeneration cost.

Immediately signal hardness breakthrough to activate regeneration. Makes your water softening system more efficient and less costly. Reliable, simple and accurate- with automated calibration. Continuous monitoring in "real time".

Continuous hardness detection

The SP510 monitor detects hardness breakthrough when the capacity of a water softener is exhausted, immediately signaling the need for regeneration. Alarm points are 0.3, 1, 2, 5, 10, 20, 50, and 100 ppm (expressed as mg/L of CaCO₃) and are selected by choosing the appropriate model. Easy to read LED indicators show a simple "HARD" or "SOFT" sample status. You can also use SP510's built-in alarm relay to actuate an external annunciator.

Low maintenance requirements

The SP510 samples water every two minutes, operating automatically for up to 60 days. It is virtually maintenancefree, requiring only about 15 minutes every two months to replenish and standardise the reagents. Replace tubing in the pump system every six months.

Convenient, trouble-free operation

The SP510 monitor makes your water softening system more eBcient and less costly. It eliminates the guesswork so your softener is regenerated only when needed. Regeneration based on calculation or set times can be replaced with continuous monitoring and automatic control, lowering reagent consumption.

Rugged, lightweight, and self-contained

The SP510 case is made of ABS plastic which is lightweight, corrosion-resistant, and shatterproof. This sealed case is IP62-rated and has a hinged door for easy access to internal components.

Specifications

Accuracy: ±25% of set point value

Alarm: 2 consecutive cycles above set point activate alarm.

1 cycle below set point cancels alarm.

Alarm type: LED indicators, Hard or Soft

Alarm points: 1 mg/L of CaCO, trip point

Certifications: NRTL certified to UL and CSA standards, and CE approved

Cycle Time: 2.0 min average

Dimensions (H x W x D): 419 mm x 318 mm x 178 mm

Enclosure rating: IP62

Fitting: Inlet: ¼-in. OD tube quick-disconnect fitting

Outlet: 1/2-in. ID flexible hose

Light source: LED with peak wavelength of 610 nm

Maintenance Interval: Standardise and replenish reagents every 2 months using EDTA or high-level sample

Replace pump tubes every 6 months

Material Enclosures: ABS plastic, large plastic windows to view alarm and reagents level

Measurement method: Colorimetric
Mounting: Wall mount

Operating Humidity: 5 - 95%, non-condensing

Operating temperature range: 5 - 40 °C

Outputs: 1 SPDT relay

Power requirements (Hz): 50/60 Hz

Power requirements (Voltage): 115/230 VAC

Reagent Consumption: 500 mL each indicator and buffer every two months

Repeatability: $\pm 10\%$ of set point value in 0.3 - 2 mg/L ranges;

 $\pm~4\%$ of set point value in 5 - 100 mg/L ranges

Sample Flow Rate: 50 - 500 mL/min

Sample Pressure: 0.07 - 0.34 bar (0.10 bar is optimum)

Sample conditioning: 0.10 - 5.17 bar

Storage conditions: -40 - 60 °C

Warranty: 12 months

Weight: 11.3 kg

What's included?: SP510 Hardness Monitor, two month's supply of reagents, an installation kit, a maintenance kit,

Hach user manual.

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