



SP510 Hardness Analyser (5 mg/L trip point)

Product #: 5410005
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 CaCO_3) 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 efficient 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

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| 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: | 5 mg/L of CaCO_3 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 |
| Fitting: | Inlet: ¼-in. OD tube quick-disconnect fitting |

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|-------------------------------|---|
| | Outlet: ½-in. ID flexible hose |
| 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 |
| 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 |
| Reagent requirements: | each of indicator and buffer. Replenish every two months for continuous operation. |
| Repeatability: | ± 10 % of set point value in 0.3 - 2 mg/L ranges |
| | ± 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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