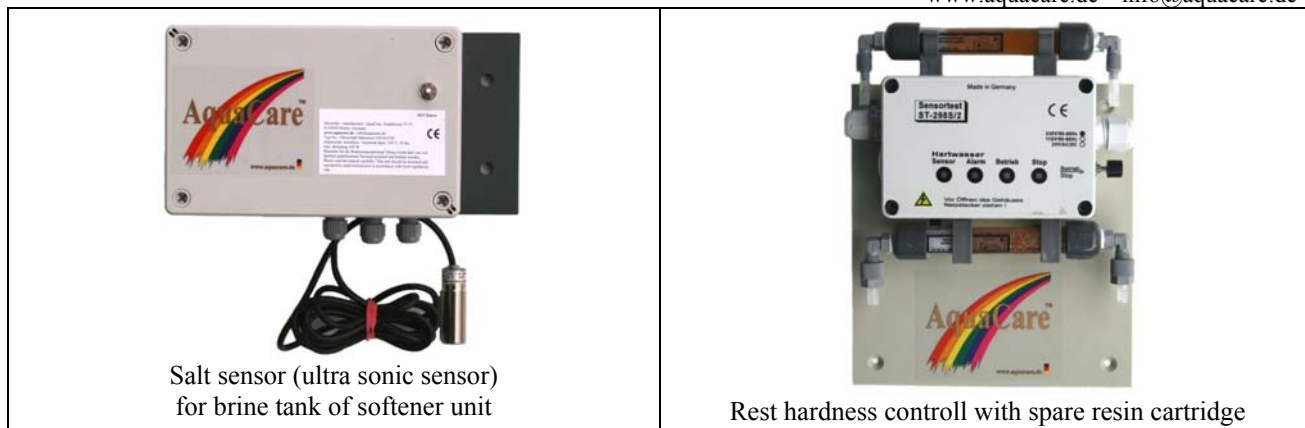


Rest Hardness Control Salt Sensor



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Salt sensor (ultra sonic sensor)
for brine tank of softener unit

Rest hardness control with spare resin cartridge

Overview

To prevent membrane problems either dosing units for stabilizing the water or softener units that change hardness component to harmless salts are installed. Otherwise lime and other precipitates will scale the membranes and causes high costs.

There are two possibilities to control the feed water stream to the reverse osmosis unit:

- The salt sensor: this ultra sonic sensor is build into the top cover of the brine tank of a softener unit and monitors the salt volume. If the salt leve is below the programmed salt level the unit shuts-off the connected reverse osmosis unit. Scaling of the membrane is therefore prevented.
- The rest hardness control: this unit ovserves the water of a softener unit. If the softener is not producing hard water any longer the control shuts-off the connected reverse osmosis unit or/and gives alarm. The control works without chemicals. The water flows through a cartridge with swellable resin. If hard water arrives the resin changes its volume and the opto-electronically working sensor gives alarm. If is possible to regenerate the used resin cartridge.

Technical data

Salt sensor	
measuring system	ultra sonic
voltage of sensor	20...30 VDC
range of operation	3...81 cm
accuracy	1 mm
lateral distance to wall of salt re- servoire	min. 3 cm
lenght of cable	2 m
max. load of output	150 mA NC
learing function	yes - volatile
display	1 LED at upper side of sensor
thread of sensor	M18×1
dimensions of control box	190 × 120 × 80 mm
max. load of relay output	500 W
electrical connection	230 V, 50 Hz

Resthärtekontrollgerät	
measuring system	swellable resin, opto- electronical sensor
display	LED for operation, stop, sen- sor and alarm
release time, typically	15 min at 10°dH 1 h at 2°dH
response sensitivity	ca. 0,3°dH
control	optical control by transparent resin cartridge
connection	6 mm
max. flow	10 l/h
numbers of switch con- tacts	2 potential-free two-way con- tacts
max. load of contacts	50 W
electrical connection	230 V, 50 Hz
standard accessories	one-way syringe with hose
optinal accessories	throttling valve, shut-off valve, check valve