OFS Online Fluid Sensoric GmbH

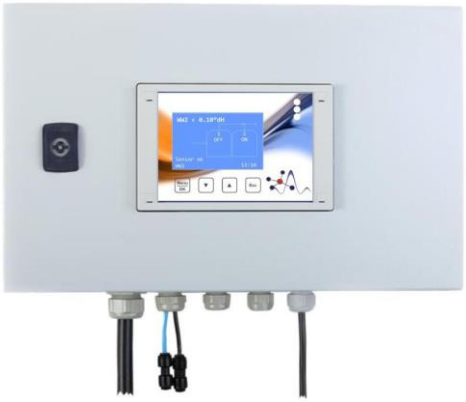
Gesellschaft für analytische und meßtechnische Systeme

Softcontrol RM

chemical-free online-water hardness monitoring with quality-controlled regeneration triggering of double water softening systems

The economy of a water softener can be improved by control and optimized activation. Thus, Softcontrol RM offers monitoring of the soft water for increased hardness concentrations as well as the external regeneration release of the softener for quality-controlled double water softening systems. In this way, up to 160% more soft water throughput can be achieved compared to a quantity-controlled softening system.

UNIQUE
In contrast to conventional water monitoring devices Softcontrol RM operates with a selective sensor for calcium and magnesium ions on potentiometric method basis.



INDIVIDUAL
The threshold value to be monitored can be set individually in stages in the water hardness range range of 0.01 mmol/l up to 0.18 mmol/l. The measured value is displayed on the screen and signaled via current loop and LAN data interface.
Alternatively, the units of measurement mmol / l, ° f or ppm can be selected. Measured values and status information are stored on an integrated flash drive.
To output the data in the display, you can choose between German and English. Different operating modes allow both a pure hardness monitoring and a quality-controlled regeneration release of the double water softening system. As a result, the soft water flow rate is significantly increased up to 160% compared to the volume-controlled operation and reduces operating costs.

ENVIRONMENTAL
An addition of indicators is not necessary. This makes the device environmental friendly and cost-effective.

SAFE
The cyclical self-monitoring of sensor performance and measuring functionality contribute significant to an interference-free process flow.

COMPATIBLE
Softcontrol RM is installable in every double water softener system on cation exchange base.
Also a subsequently installation into an existing system is possible.

UNCOMPLICATED
Installation, commissioning and operating of Softcontrol RM are completely uncomplicated.
Also the sensor can be changed easily by pushing it into the measuring chamber.

WELL– ARRANGED
A clearly represented display shows water hardness evaluation, functional status and the momentary soft water capacity at first glance. With three double assigned buttons Softcontrol RM can be parameterized and information can be recalled. Displaying of water hardness evaluation is shown on the screen and with the measurement units mmol/l, ppm, °f or °dH.

EASY TO MAINTAIN
Except an occasional sensor exchange Softcontrol RM is nearly maintenance-free.

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TÜV PROFI CERT ISO 9001 73 100 1248

TECHNICAL DATA

dimensions	400 x 250 x 160 mm (W x H x D)
weight	approx. 8 kg
surrounding temperature	5 °C … 50 °C
relative humidity	20 % … 80 %
power supply	power supply unit 100 … 240 Volt / 50 … 60 Hz
power consumption	15 V DC, about 20 Watt
raw and soft water connection	branch pipe with connection for PA-hose o.d. 4 mm, i.d. 2 mm, up streamed dirt filter ≤ 0.1 mm recommended
raw and soft water pressure	minimum 1 bar up to maximum 10 bar
drainage	minimum Ø 15 mm, pressure-free
quality of raw and soft water	natural water, free of grease, oil or brine germ content < 5000 CFU/ml
hardness range raw water	0.9 mmol/l ... 7.2 mmol/l
hardness range soft water	0.0018 mmol/l ... 0.18 mmol/l
threshold value calibration	0.01 mmol/l ... 0.18 mmol/l
sensor control	automatically
signaling	threshold value alarm service alarm
external signaling	potential-free contacts (for alarms: service and threshold value)
measurement output	4 to 20 mA current loop (4 mA = 0.01 mmol/l and 20 mA = 0.18 mmol/l) LAN interface with MODBUS/TCP
data storage	electronic operations diary (flash drive)
connection control water softener	regeneration triggering via potential-free contact
measurement cycle	contact water meter or turbine
operation time of sensor	about 6 to 9 months (without warranty)

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