

Softcontrol Carbonate

monitoring decarbonization processes

A particular form of water softening is decarbonization, also known as partial softening. As in the case of complete water softening, Softcontrol Carbonat monitors the decarbonated water after a decarbonization unit. Exceeding a given carbonate threshold alarm is triggered.

Characteristics

- monitoring the decarbonated water after a decarbonization unit
- alarm thresholds from 0.1 mmol/l to 0.9 mmol/l
- no use of indicators
- self-monitoring of the device system
- separate alarm for carbonate hardness and service
- parameterizable current loop 4 ... 20 mA
- measured value output in the display
- easy installation and parameterization
- ecological operation because there is no addition of indicators



ECONOMICS

Optimization of the decarbonization process with increased soft water throughput and reduced use of regeneration agents and rinsing waters.

ECOLOGICALLY

Softcontrol Carbonate works environmentally friendly and cost-effective, as the addition of reagents or indicators is not necessary.

SAFE

The cyclical self-monitoring of the sensor quality and the measuring functions contributes significantly to the trouble-free process flow.

UNCOMPLICATED

Installation, commissioning and operation of Softcontrol Carbonate are completely uncomplicated. Also the change of the sensor takes place by simply plugging into the measuring chamber.

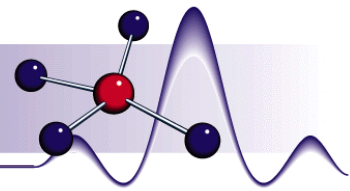
WELL-ARRANGED

A user-friendly display with LED shows device status and hardness rating at first glance. Softcontrol Carbonate can be parameterized via four buttons.

The hardness evaluation is shown on the display in absolute values and can be parameterized in the units of measurement ° dH and mval.

EASY TO MAINTAIN

Softcontrol carbonate is virtually maintenance-free except for occasional sensor changes.



TECHNICAL DATA

Dimension of case	400 x 250 x 160 mm (L x H x W)
Weight	about 8 kg
Type of protection housing	IP 54
Surrounding temperature	5 °C ... 50 °C
Relative humidity	20 % ... 80 %
Power supply	power supply unit 100 ... 240 Volt / 50 ... 60 Hz
Protection class	I (protective earthing)
Operating voltage	about 20 Watt
Raw/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/soft water pressure	minimum 1 bar up to maximum 10 bar, pressure difference as low as possible
Drainage	minimum Ø 15 mm, pressure-free
Quality raw/soft water	according to valid Drinking Water Ordinance free from fats, oils and sols, number of bacteria <5000 CFU / ml
Water range raw water hardness	0.2 mmol/l to 9 mmol/l
Water range carbonate hardness	0.002 mmol/l to 2 mmol/l
Threshold value range soft water	0.1 mmol/l to 1 mmol/l
Measuring cycle time-controlled	1 to 30 minutes
Sensor control	automatically
Signaling	Exceeding of the threshold value sensor change
External signaling	potential-free contacts Parameterizable current loop 4 ... 20 mA
Operating time sensor	about 6 ... 12 months (without warranty)