



12. Dosing and Control instrumentation

Chlorination

Dosing series AKS 630

Dosing series TPG 603

Dosing accessories

Regulation/measuring Amperometric chlorination Sentinel 2

Measuring and regulation system with recirculation for chlorine and pH amperometric Sentinel 2.



Description

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| 1. Tank outlet valve. | 9. Foot valve. |
| 2. Recirculation pump. | 10. Chlorine level control. |
| 3. Check valve. | 11. Chlorine tank. |
| 4. Pump outlet valve. | 12. Injection point. |
| 5. By-pass | 13. Inlet to recirculation tank. |
| 6. Sentinel 2 | 14. Water tank. |
| 7. Junction cable between Sentinel and dosing pump. | 15. Protection and control board for recirculation pump. |
| 8. Dosing pump. | 16. Power supply |

Regulation/measuring. Proportional chlorination Sentinel

Chlorination system with pulse-emitter water-meter. Proportional chlorination Sentinel.



Description

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| <ul style="list-style-type: none"> 1. Well. 2. By-pass. 3. Protection filter. 4. Pulse-emitter water-meter. 5. Junction cable between water-meter and dosing pump. 6. Proportional dosing pump. 7. Chlorine tank. | <ul style="list-style-type: none"> 8. Tube injection point. 9. Chlorine level control. 10. Treated water tank. 11. Foot valve. |
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Sentinel AKS Diaphragm dosing pumps Constant flow



Power supply 100–240 Vac 50/60 Hz.
 Working temperature: from 5° to 60 °C.
 Ceramic double ball valve.
 Housing made of PP.
 Head and valves made of PVDF.
 Membrane made of TEFLON.
 Constant flow.

Dimensions of the system:
 119 x 231 x 149,4 mm.
 Weight: 3 kg.



Code	Packaging units	Model	Suitable for	Pressure bar	Flow l/h
748000	1	AKS603 PVDF	Chlorine and acids	8	6

Optional

Code	Packaging units	Description
249901	1	Level probe
249903	1	Level probe socket

Sentinel TGP Electronic diaphragm dosing pumps Proportional flow



Power supply 100–240 Vac 50/60 Hz.
 Working temperature: from 5 a 60 °C.
 Ceramic double ball valve.
 Housing made of PP.
 Head and valves made of PVDF.
 Membrane made of TEFLON.
 Proportional pumps for pulse-meter,
 4–20 mA, time-controlled, ppm.
 Flow proportional.

Dimensions of the system:
 119 x 231 x 149,4 mm.
 Weight: 3 kg.



Code	Packaging units	Model	Suitable for	Pressure bar	Flow l/h
748200	1	TPG603 PVDF	Chlorine and acids	8	5

Optional

Code	Packaging units	Description
249901	1	Level probe

! PVDF is extremely resistant to corrosive products such as acids.
 Please, ask for other connectors, voltages and power frequencies.

Spare parts for Sentinel AKS/TPG 602/603 dosing pumps



Code	Packaging units	Description	Specifications
794002	1	AKS electronic board	
794003	1	TPG electronic board	
608205	1	Dosing device A series 603	PVDF-VITON
608200	1	Foot valve with filter	PVC-FPM
608204	1	Foot valve with filter	PVDF-EPDM
608300	1	Injection valve	PVC-FPM
773000	1	Injection valve	PVDF-EPDM
249901	1	Level sensor	
273101	1	High density teflon tube 6 mm x 4 mm	
249903	1	Level sensor connector	

Proportional dosing system for Sentinel chlorination



Pulse-emitter water-meter.

Proportional dosing pump TPG603
PVDF for electronic level control.**
Solution tank made of polyethylene with
level grid and screw cap.
Voltage: 220 single-phase/50-60 Hz.

Code	Packaging units	Water-meter	Pump	Tank
252300	1	1/2"	Dosing device TPG603 PVDF	50 l white
252400	1	3/4"	Dosing device TPG603 PVDF	50 l white
252500	1	1"	Dosing device TPG603 PVDF	50 l white
252600	1	1 1/4"	Dosing device TPG603 PVDF	120 l white
252700	1	1 1/2"	Dosing device TPG603 PVDF	120 l white
252800	1	2" (with flange)	Dosing device TPG603 PVDF	120 l white
252900	1	2 1/2" (with flange)	Dosing device TPG603 PVDF	120 l white
253000	1	3" (with flange)	Dosing device TPG603 PVDF	120 l white
253100	1	4" (with flange)	Dosing device TPG603 PVDF	120 l white

! Please, ask for other connectors, voltages and power frequencies.
** Level probe (249901) not included.

Pulse-emitter water-meter



Cold water-meter with connectors up to 1 1/2"
and flange from 2".

Configurations:

1 Pulse x 1 L of general dosing.
4 Pulses x 1 L of chlorine dosing.

Code	Packaging units	Water-meter connection Ø	Length mm	Max Flow. m ³ /h
253200	1	1/2"	115	3
253300	1	3/4"	115	5
253400	1	1"	260	7
253500	1	1 1/4"	260	12
253600	1	1 1/2"	300	20
253700	1	2" (with flange)	210	70
253800	1	2 1/2" (with flange)	220	100
253900	1	3" (with flange)	220	180
254000	1	4" (with flange)	290	240

Sentinel 2 Redox, chlorine and pH measuring and regulation systems



Code	Packaging units	Description
735303	1	<p>pH-regulator meter and redox potential with all or none principle. Includes electrode regulator, double electrode holder assembled on a polypropylene panel, includes 5" cartridge housing, sample collection, calibration solution of pH4-pH7 and 486 MV at 25°C. Installed on the panel.</p> <p>Dimensions: 600 x 500 x 10 mm. Measuring range: 0 - 14 pH units. Redox potential range: -/+1999 MV. Voltage: 220 single-phase/50-60 Hz.</p>

Code	Packaging units	Description
735300	1	<p>Free active chlorine (hypochlorous acid) regulator meter. Ideal for drinking water chlorination. All or none principle. Includes regulator, galvanic amperometric cell (platinum copper), Reed sensor, flow rotameter, 5" cartridge housing, sample collector assembled on a polypropylene panel. Installed on the panel.</p> <p>Dimensions: 600 x 500 x 10 mm. Measuring range: 0 - 5 ppm. Voltage: 220 single-phase/50-60 Hz.</p>

Code	Packaging units	Description
735301	1	<p>Free active chlorine (hypochlorous acid) and pH regulator meter. Ideal for drinking water regulation.</p> <p>All or none principle. Includes regulator, galvanic amperometric cell (platinum gold), Reed sensor, flow rotameter, pH electrode, electrode holder in by-pass, 5" cartridge housing, sample collector assembled on a protected polypropylene panel. Installed on the panel.</p> <p>Dimensions: 600 x 500 x 10 mm. Chlorine measuring range: 0-5 ppm. pH range: 0-14 pH units. Voltage: 220 single-phase/50-60 Hz.</p>

! Please, ask for other connectors, voltages and power frequencies.

Chlorine and ph measuring and regulation systems (Sentinel 2) (potentiostatic system. Quality water under 250 micro siemens)



Code	Packaging units	Description
735312	1	Free active chlorine (hypochlorous acid) regulator meter. Suitable for drinking water chlorination. All or none principle. Includes regulator, galvanic potentiostatic cell (platinum copper), Reed sensor, flow rotameter, 5" cartridge housing, sample collector assembled on a polypropylene panel. Installed on the panel. Dimensions: 600 x 500 x 10 mm. Measuring range: 0 - 5 ppm. Voltage: 220 single-phase/50-60 Hz.

Code	Packaging units	Description
735313	1	Free active chlorine (hypochlorous acid) and pH regulator meter. Suitable for regulation water chlorination. All or none principle. Includes regulator, galvanic potentiostatic cell (platinum copper), Reed sensor, flow rotameter, 5" cartridge housing, sample collector assembled on a polypropylene panel. Installed on the panel. Dimensions: 600 x 500 x 10 mm. Measuring range 0-5 ppm. pH range: 0-14 pH units. Voltage: 220 single-phase/50-60 Hz.

! Please, ask for other connectors, voltages and power frequencies.

pH Redox conductivity regulator meters for wall assembly



IP65 Box.
Consumption 5 W.
Relay contacts 3A 250 VAC.
2 Set points ON-OFF.
Voltage: 220 V/50 Hz.

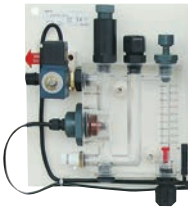
Dimensions:
Height: 144 mm.
Width: 144 mm.
Length: 104 mm.

Code	Packaging units	Description	Range
550503	1	Redox / pH regulator meter	0-14 pH / 0-999 MV
539401	1	Conductivity regulator meter	1-200 μ S



Electrodes or electrode holders are not included

Accessories and spare parts for regulation systems



Code	Packaging units	Description
257401	1	Complete free chlorine sensor with bracket and detector for lack of sampling
720403	1	Copper sensor
720404	1	Platinum sensor
231901	1	Pyrex balls for chlorine sensor
258301	1	Reed flow sensor for Sentinel 2
539700	1	Conductivity sensor 3/4 M K10 with PT-100. 0,01-500 μ S
757901	1	Conductivity sensor 3/4 M K5 with PT-100. 0,5-2000 μ S
539701	1	Conductivity sensor 3/4 M K1 with PT-100. 5-5000 μ S
739301	1	Cable for conductivity sensor of 5 meters with connector

Graduated solution tanks

Cylindrical tanks with screw cap, made of translucent or black polypropylene.



Code	Color	Code	Color	Packaging units	Capacity l	Diameter mm	Height mm	Cap mm
254100	Translucent	254700	Black	1	50	390	530	135
254200	Translucent	254800	Black	1	120	510	730	170
254300	Translucent	254900	Black	1	200	570	920	170
254400	Translucent	255000	Black	1	300	610	1190	170
254500	Translucent	255100	Black	1	500	760	1190	170
254600	Translucent	255200	Black	1	1000	1080	1445	290

Accessories and spare parts control equipment



Standard solution

Code	Packaging units	Description	CC	Parameter
260700	1	Standard solution	60	pH 07,00
260800	1	Standard solution	60	pH 04,00
261000	1	Standard solution	60	pH 09,00
261200	1	Standard solution	60	rH 468MV
261300	1	Standard solution	60	Conductivity 147 μ S
261400	1	Standard solution	60	Conductivity 1413 μ S
261500	1	Standard solution	60	Conductivity 12,88 MS
261600	1	Standard solution	60	PPM 1382
261701	1	Standard solution	89	PPM 342