



13.

# Dosing

## and Control Instrumentation

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# Chlorination

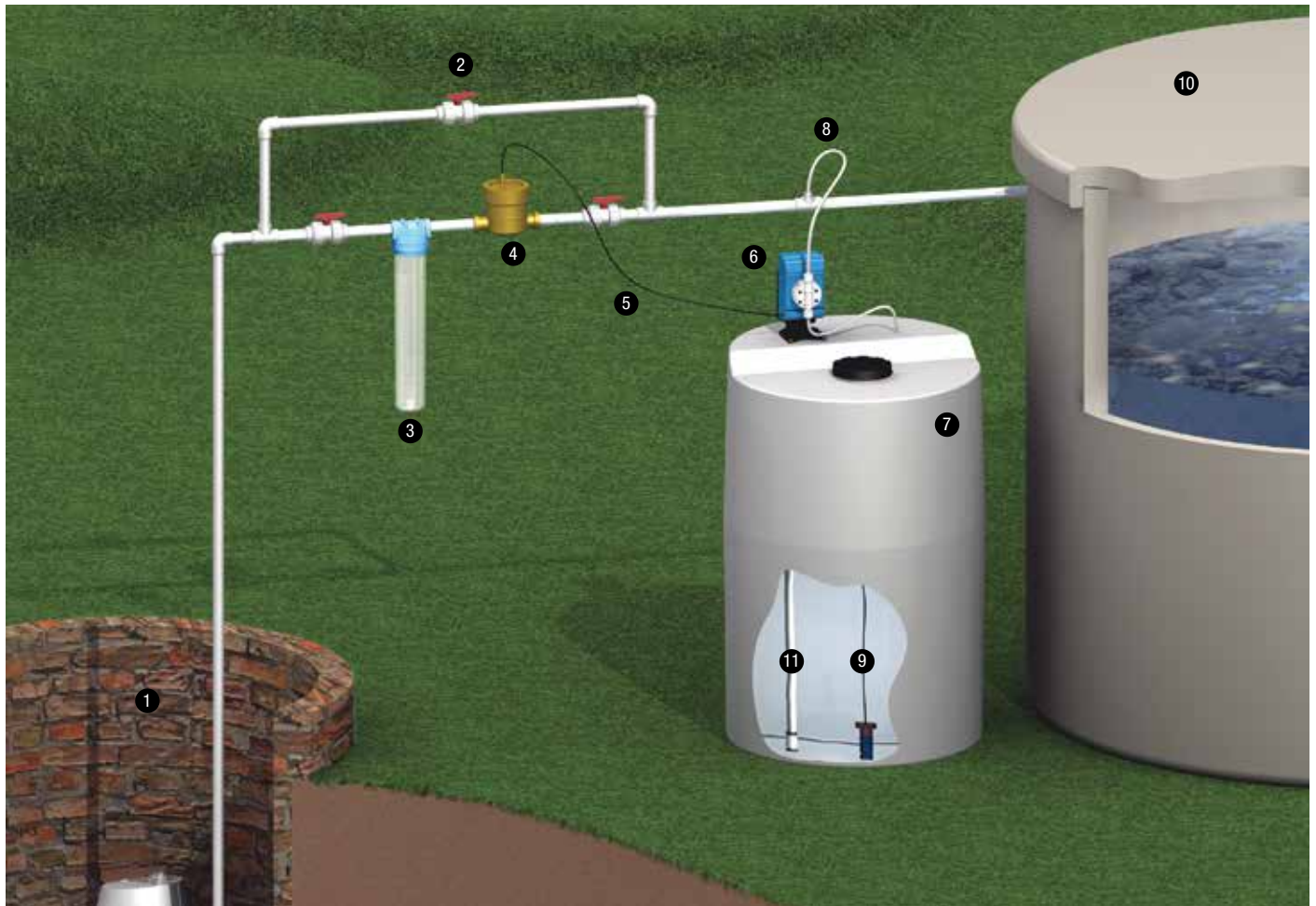
## Regulation/measuring Amperometric chlorination Sentinel 2



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

No.	Description
1	Tank outlet valve.
2	Recirculation pump.
3	Check valve.
4	Pump outlet valve.
5	By-pass.
6	Sentinel 2.
7	Junction cable between Sentinel and dosing pump.
8	Dosing pump.
9	Foot valve.
10	Chlorine level control.
11	Chlorine tank.
12	Injection point.
13	Inlet to recirculation tank.
14	Water tank.
15	Protection and control board for recirculation pump.
16	Power supply.

## Regulation/measuring Proportional chlorination Sentinel



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

### No. Description

- |    |   |
|----|---|
| 1  | Well.   |
| 2  | By-pass.  |
| 3  | Protection filter.  |
| 4  | Pulse-emitter water-meter.                                |
| 5  | Junction cable between<br>water-meter and dosing<br>pump. |
| 6  | Proportional dosing pump.                                 |
| 7  | Chlorine tank.  |
| 8  | Tube injection point.                                     |
| 9  | Chlorine level control.                                   |
| 10 | Treated water tank.                                       |
| 11 | Foot valve.   |

# Dosing series

## 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.

**Dimensions of the system**  
119 x 231 x 149.4 mm.  
Weight: 3 kg.

Code	Model	Pressure bar	Flow L/h	Packaging units
748000	AKS603 PVDF	8	5	1

Optional

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

## Sentinel TGP Electronic diaphragm dosing pumps Proportional flow



Power supply 100-240 Vac 50/60 Hz.  
Working temperature: from 5° to 60 °C.  
Ceramic double ball valves.  
Housing made of PP.  
Head and valves made of PVDF.  
Membrane made of TEFLON.  
Proportional pumps for pulse-meter,  
0/4...20 mA, time-controlled, ppm.

**Dimensions of the system**  
119 x 231 x 149.4 mm.  
Weight: 3 kg.

Code	Model	Pressure bar	Flow L/h	Packaging units
748200	TGP603 PVDF	8	5	1

Optional

Code	Description	Packaging units
249901	Level probe	1



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

# Dosing accessories

## PVC agitators

Voltage: 220 single-phase/50-60 Hz.



Code	Tank L	Description	Motor HP	Packaging units
250900	100	Single-phase agitator 1400 RPM	0.12	1
251000	200-300	Single-phase agitator 1400 RPM	0.12	1
251100	500	Single-phase agitator 1400 RPM	0.12	1



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

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



Code	Description	Specifications	Packaging units
794002	AKS electronic board		1
794003	TPG electronic board		1
608205	Dosing device A series 603	PVDF-VITON	1
608203	Dosing device A series 602	PVDF	1
608200	Foot valve with filter	PVC-FPM	1
608204	Foot valve with filter	PVDF-EPDM	1
608300	Injection valve	PVC-FPM	1
773000	Injection valve	PVDF-EPDM	1
249901	Level sensor		1
273101	High density teflon tube 6 mm x 4 mm		1
249903	Level sensor connector		1

## 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	Water-meter	Pump	Tank	Packaging units
252300	1/2"	Dosing device TPG603 PVDF	50 L white	1
252400	3/4"	Dosing device TPG603 PVDF	50 L white	1
252500	1"	Dosing device TPG603 PVDF	50 L white	1
252600	1 1/4"	Dosing device TPG603 PVDF	120 L white	1
252700	1 1/2"	Dosing device TPG603 PVDF	120 L white	1
252800	2"	Dosing device TPG603 PVDF	120 L white	1
252900	2 1/2"	Dosing device TPG603 PVDF	120 L white	1
253000	3"	Dosing device TPG603 PVDF	120 L white	1
253100	4"	Dosing device TPG603 PVDF	120 L white	1

**!** 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.
- 1 Pulse x 10 L water softening and denitrification.
- 1 Pulse x 100 L water softening and denitrification.

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

## Sentinel 2 Redox chlorine pH measuring and regulation systems



Code	Description	Packaging units
735303	<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.</p> <p>Measuring range: 0 - 14 pH units.</p> <p>Redox potential range: -/+1999 MV.</p> <p>Voltage: 220 single-phase/50-60 Hz.</p>	1
735300	<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.</p> <p>Measuring range: 0 - 5 ppm.</p> <p>Voltage: 220 single-phase/50-60 Hz.</p>	1
735301	<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.</p> <p>Chlorine measuring range: 0-5 ppm.</p> <p>pH range: 0-14 pH units.</p> <p>Voltage: 220 single-phase/50-60 Hz.</p>	1

**!** 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.



Electrodes or electrode holders are not included

Code	Description	Range	Packaging units
550503	pH regulator meter	0-14 pH	1
539401	Conductivity regulator meter	10-20000 $\mu$ S	1
550503	Redox regulator meter	0-999 MV	1



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

## Accessories and spare parts for regulation systems



Code	Description	Packaging units
257401	Complete free chlorine sensor with bracket and detector for lack of sampling	1
720403	Copper sensor	1
720404	Platinum sensor	1
231901	Pyrex balls for chlorine sensor	1
258301	Reed flow sensor for Sentinel 2	1
550600	Glass Redox electrode without cable	1
739200	Glass pH electrode without cable	1
739303	Coaxial cable 10 meters with BNC and S7	1
739304	Coaxial cable 20 meters with BNC and S7	1
539700	Conductivity sensor 3/4 M K10 with PT-100. 10-2000 $\mu$ S	1
757901	Conductivity sensor 3/4 M K5 with PT-100. 20-4000 $\mu$ S	1
539701	Conductivity sensor 3/4 M K1 with PT-100. 100-20000 $\mu$ S	1
739301	Cable for conductivity sensor of 10 meters with connector	1

## Graduated solution tanks

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



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

## Accessories and spare parts control equipment



### Ostron solutions

Code	Description	CC	Parameter	Packaging units
260700	Standard solution	60	pH 07.00	1
260800	Standard solution	60	pH 04.00	1
261000	Standard solution	60	pH 09.00	1
261200	Standard solution	60	rH 468MV	1
261300	Standard solution	60	Conductivity 147 $\mu$ S	1
261400	Standard solution	60	Conductivity 1413 $\mu$ S	1
261500	Standard solution	60	Conductivity 12.88 MS	1
261600	Standard solution	60	PPM 1382	1
261701	Standard solution	60	PPM 800	1