Water & Industry

Probes & Sensors 2025

Probes & Sensors

Product Overview

	pH	ORP	EC	DO	FW	CL	PAA	H_2O_2	Br	O_3	TB	SS	°C°F
Parameter	pH	ORP	Conductivity	Dissolved Oxygen	Flow-rate	Chlorine	Peracetic Acid	Hydrogen Peroxide	Bromine	Ozone	Turbidity	Suspended Solids	Temperature
Modular probe holder	•	•	•	•		•	•	•	•	•	•		•
Flow-through probe holders	•	•	•	•		•	•	•	•	•	•	•	•
In-line probe holders	•	•	•		•								•
Immersion probe holders	•	•	•	•							•	•	•

Features & benefits

- Monitoring a limit, a value or building a closed control circuit is effortless with our sensors. Using our sensors, it is simple and also very professional to build a measurement chain that takes into account a control system, one or more probes, a probe holder and some other accessories. The measured values are delivered in real time and can be flexibly connected to the different process interfaces via bypass, immersion or installed fittings.
- Our product line provides a wide range of sensors for different measuring tasks. The field of application covers everything from simpler water treatment tasks to industrial process waters with more stringent requirements in terms of temperature, pressure, contamination tolerance and chemical resistance.

Complete overview of probes and probe holders for specific applications

Parameters	pH								ORP				EC												
Probes	SPH1-WP-SJ/DJ	SPH2-WP-SJ	SPH3-WW-DJ	SPH4-HP-DJ	SPH4-HT-DJ	SPH4-LC-DJ	SPH4 CR-DJ	SPH4 HF-DJ	SRH1 WP-SJ/DJ	SRH1/2 WP-AU/PT	SRH3 WW-DJ	SRH4 HT-DJ	CK-1-SS-PP	CK-5-SS-PP	CK-10-SS-PP	CTK-1-SS-PP	CTK-5-SS-PP	CTK-10-SS-PP	CTK-1-SS-PF	CTK-100-SS-SS	CK-1-GR-PP	CTK-1-GR-EX	CK-1-PT-GL	CTK-0.1-PT-EX	CTK-10-PT-EX	CTK-0.1-GR-EX
Applications																										
Wastewater			•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•
Drinking water		•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•		•	•
Cooling towers		•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	•		•	•	•		•	•
Swimming pools	•	•							•	•	•		•	•	•	•	•	•	•		•	•	•			•
Reverse osmosis			•	•	•	•			•	•	•		•	•	•	•	•	•	•	•	•	•	•		•	•
Water for boilers			•	•	•		•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clean in place					•		•					•	•	•	•	•	•	•	•	•	•	•	•			•
Disinfection			•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•
Irrigation	•	•	•	•			•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Plating	•	•	•	•			•			•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•
Sludge treatment			•	•			•				•	•	•			•			•		•	•	•	•		•
Modular probe holder with open amperometric cell for chlorine measurement																										
PSS Plexi	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Flow-through probe holders																										
PSS7 Single	•	•	•	•	•	•	•	•	•	•	•	•										•	•	•	•	•
PSS8 A/A HP	•	•	•	•	•	•	•	•	•	•	•	•										•	•	•	•	•
PSS8 A1/A1 HP	•	•	•	•	•	•	•	•	•	•	•	•										•	•	•	•	•
PSS8 B1 HP																										
PSS8 C																										
In-line probe holders																										
PSS3 S	•	•	•	•	•	•	•	•	•	•	•	•										•	•	•	•	•
PSS3	•	•	•	•	•	•	•	•	•	•	•	•										•	•	•	•	•
SPP/SPP FIL	•	•	•	•	•	•	•	•	•	•	•	•										•	•	•	•	•
PSS EC																•	•	•								
Clamp saddles																										
Immersion probe holders																										
PI	•	•	•	•	•	•	•	•	•	•	•	•										•	•	•	•	•
PIR - PIR2	•	•	•	•	•	•	•	•	•	•	•	•										•	•	•	•	•
PCIR																	•	•	•							
PI G	•	•	•	•	•	•	•	•	•	•	•	•										•	•	•	•	•
PI A	•	•	•	•	•	•	•	•	•	•	•	•										•	•	•	•	•
S315 O																										
S315 F																										

DO	FW			CL			PAA	H_2O_2	Br	O_3	TB						SS	°C°F	
S423C OPT PVC/AISI	SFWE	SFW PVC-C	SFW SS	FCL/FCL HP/KP FCL	DCL/DCL HP/KP DCL	TCL/KP TCL	PAA	H_2O_2	KP BR	O_3	S462-PW	S461-LT	S461-LT-SS	S461-MT	S461-ST	S461-HT	S461 S	PT100 NUT	PT100 V/VPG
•	•			•	•	•					•	•	•	•	•	•	•	•	•
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pH probes

For high-precision pH measurement

pH

The knowledge of pH, which represents a classic measure of the acidity or alkalinity of water, is essential in many applications that involve chemical laboratory analysis. pH meters are used to control water quality in situations such as the water supply of cities, swimming pools, environmental remediation, food and beverage production processes and many other applications.

Electronic pH meters measure the potential difference between two electrodes present in the probe immersed in the solution and display the corresponding value, converted into pH. The probe has a special glass membrane, permeable to the hydrogen ion H+ which allows it to reach the measuring electrodes; the quality of the glass determines the quality of the probe in terms of sensitivity, response speed and mechanical resistance.

Technical features

Features	SPH1-WP-SJ	SPH1-WP-DJ	SPH2 -WP-SJ	SPH3-WW-DJ	SPH4-HP-DJ	SPH4-HT-DJ	SPH4-LC-DJ	SPH4-CR-DJ	SPH4-HF-DJ
Measurement range	pH 2 – 12	pH 2 – 12	pH 2 – 12	pH 0 – 14	pH 0 – 14	pH 0 – 14	pH 0 – 14	pH 0 – 14	pH 0 – 14
Working temperatures	0 – 60°C	0 – 60°C	0 – 60°C	0 – 80°C	-10 – 60°C	0 – 130°C	-10 – 40°C	0 – 60°C	-10 – 100°C
Max pressure	6 bar	6 bar	6 bar	6 bar	6 bar	0–6 bar @ 130°C; 0–16 bar @ 25°C	0.5 bar	2 bar	16 bar @ 100°C
Probe body material	Polycarbonate	Polycarbonate	Epoxy	Glass	Glass	Glass	Glass	Glass	Glass
Membrane material	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass
Type of diaphragm	Pellon PTFE	Pellon PTFE	Pellon PTFE	Open hole diaphragm	Double diaphragm with open hole	Triple ceramic diaphragm	Sleeve type diaphragm	Ceramic diaphragm	Double diaphragm with open hole
Junction type	Single	Double	Single	Double	Double	Double	Double	Double	Double
Electrolyte	KCL Gel	KCL Gel	KCL Gel	KCL Gel	KCL Gel	Blue 3M KCL Pharma	3M KCL Gel	KCL Gel	Polisolve
Mechanical connection	Ø 12 mm	Ø 12 mm	Thread PG 13.5 mm	Thread PG 13.5 mm	Thread PG 13.5 mm	Thread PG 13.5 mm	Thread PG 13.5 mm	Thread PG 13.5 mm	Thread PG 13.5 mm
Electrical connection	BNC (Blue)	BNC (Blue)	S8	S8	S8	S8	S7	S8	S8
Cable	1.5m or 6 m	6 m	Not included	Not included	Not included	Not included	Not included	Not included	Not included
Dimensions	Ø 12 mm; L=120 mm								

Kontrol Series Probe Compatibility

pH Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
SPH1-WP-SJ	•	•	•	•	•	•	•
SPH1-WP-DJ	•	•	•	•	•	•	•
SPH2 -WP-SJ	•	•	•	•	•	•	•
SPH3-WW-DJ	•	•	•	•	•	•	•
SPH4-HP-DJ	•	•	•	•	•	•	•
SPH4-HT-DJ	•	•	•	•	•	•	•
SPH4-LC-DJ	•	•	•	•	•	•	•
SPH4-CR-DJ	•	•	•	•	•	•	•
SPH4-HF-DJ	•	•	•	•	•	•	•

SPH1-WP-SJ

Single-junction polycarbonate-body pH probe. Suitable for general laboratory, swimming pool and water monitoring applications.

Technical features

Measurement range 2 – 12 pH ; **Operating temp** 0 – 60°C

Maximum pressure 6 bar

Body material PP ; **Membrane material** Glass

Diaphragm type Pellon PTFE ; **Junction type** Single

Electrolyte KCL Gel ; **Mechanical connection** Ø 12 mm

Electrical connection BNC ; **Cable** 1.5 or 6 m

SPH1-WP-DJ

Double-junction polycarbonate body pH probe. Suitable for general laboratory, swimming pool and water monitoring applications.

Technical features

Measurement range 2 – 12 pH ; **Operating temp** 0 – 60°C
Maximum pressure 6 bar
Body material PP ; **Membrane material** Glass
Diaphragm type Pellon PTFE ; **Junction type** Double
Electrolyte KCL Gel ; **Mechanical connection** Ø 12 mm
Electrical connection BNC ; **Cable** 6 m

SPH2-WP-SJ

Single-junction epoxy body pH probe. Suitable for general laboratory, swimming pool and water-monitoring applications.

Technical features

Measurement range 2 – 12 pH ; **Operating temp** 0 – 60°C
Maximum pressure 6 bar
Body material Epoxy ; **Membrane material** Glass
Diaphragm type Pellon PTFE ; **Junction type** Single
Electrolyte KCL Gel
Mechanical connection Thread PG 13.5 mm
Electrical connection S8 ; **Cable** not included

SPH3-WW-DJ

Double-junction glass body pH probe. Suitable for fish farming, galvanic processes and wastewater, drinking water and cooling water treatment.

Technical features

Measurement range 0 – 14 pH ; **Operating temp** 0 – 80°C
Maximum pressure 6 bar
Body material Glass ; **Membrane material** Glass
Diaphragm type Open hole ; **Junction type** Double
Electrolyte KCL Gel
Mechanical connection Thread PG 13.5 mm
Electrical connection S8 ; **Cable** not included

SPH4-HP-DJ

Double-junction glass reinforced pH probe. Suitable for fish farming, galvanic processes and wastewater, drinking water and cooling water treatment.

Technical features

Measurement range 0 – 14 pH ; **Operating temp** -10 – 60°C
Maximum pressure 6 bar
Body material Reinforced glass ; **Membrane material** Glass
Diaphragm type 2 open hole diaphragms
Junction type Double
Electrolyte KCL Gel
Mechanical connection Thread PG 13.5 mm
Electrical connection S8 ; **Cable** not included

SPH4-HT-DJ

Double-junction, high-temperature, triple-ceramic diaphragm pH probe with reinforced glass body. Suitable for ammonia, chrome plating, reverse osmosis, galvanic processes and bisulfite applications.

Technical features

Measurement range 0 – 14 pH ; **Operating temp** 0 – 130°C
Maximum pressure 6 bar @ 130°C; 16 bar @ 25°C
Body material Glass ; **Membrane material** Glass
Diaphragm type Triple ceramic diaphragm ;
Junction type Double
Electrolyte Blue 3M KCL Pharma
Mechanical connection Thread PG 13.5 mm
Electrical connection S8 ; **Cable** not included

SPH4-LC-DJ

Double-junction pH probe with reinforced-glass body. Suitable for fish farming, galvanic processes and wastewater, drinking water and cooling water treatment.

Technical features

Measurement range 0 – 14 pH
Operating temp -10 – 40°C
Maximum pressure 0.5 bar
Body material Reinforced glass
Membrane material Glass
Diaphragm type Sleeve
Junction type Double
Electrolyte 3M KCL Gel
Mechanical connection Thread PG 13.5 mm
Electrical connection S7 ; **Cable** not included

SPH4-CR-DJ

Double-junction pH probe with reinforced-glass body and single ceramic diaphragm. Suitable for ammonia, chrome plating, reverse osmosis, galvanic processes and bisulfite applications.

Technical features

Measurement range 0 – 14 pH
Operating temp 0 – 60°C
Maximum pressure 2 bar
Body material Reinforced glass
Membrane material Glass
Diaphragm type 1 ceramic diaphragm
Junction type Double
Electrolyte KCL Gel
Mechanical connection Thread PG 13.5 mm
Electrical connection S8 ; **Cable** not included

SPH4-HF-DJ

Double-junction pH probe with reinforced-glass body, resistant to fluorides. Suitable for wastewater, drinking water, fish farming, well water and galvanic processes.

Technical features

Measurement range 0 – 14 pH
Operating temp -10 – 100°C
Maximum pressure 16 bar @ 100°C
Body material Reinforced glass
Membrane material Glass
Diaphragm type 2 open hole diaphragms
Junction type Double
Electrolyte Polisolve
Mechanical connection Thread PG 13.5 mm
Electrical connection S8 ; **Cable** not included

ORP probes

Advanced probes for ORP measurement

ORP

In aqueous solutions, ORP is a good measure of the effectiveness of disinfectants present in the water. In a swimming pool, the higher the oxidation potential, the more efficient the disinfectant. In water monitoring, the ORP value therefore provides the operator with a quick indication of the effectiveness of the disinfectant present in the water. This allows the operator to evaluate if the current situation is adequate or if it is instead necessary to dose additional disinfectant. An ORP probe consists of a measuring electrode in contact with the solution and a reference electrode with stable potential.

Technical features

Features	SRH1-WP-SJ	SRH1-WP-DJ	SRH1-WP-AU	SRH2-WP-AU	SRH2-WP-PT	SRH3-WW-DJ	SRH4-HT-DJ
Measurement range	±1,000 mV	±1,000 mV	± 2,000 mV	± 2,000 mV	± 2,000 mV	±1,000 mV	± 2,000 mV
Operating temperature	0 – 60°C	0 – 60°C	0 – 60°C	0 – 60°C	0 – 60°C	0 – 80°C	0 – 130°C
Maximum pressure	6	6	6	6	6	6	6 bar @ 130°C; 16 bar @ 25°C
Electrode material	Platinum	Platinum	Gold	Gold	Platinum	Platinum	Platinum
Body material	Polycarbonate	Polycarbonate	Polycarbonate	Epoxy	Polycarbonate	Glass	Reinforced glass
Diaphragm type	Pellon PTFE	Pellon PTFE	Pellon PTFE	Pellon PTFE	Pellon PTFE	1 open hole	3 open hole
Junction type	Single	Double	Single	Single	Single	Double	Double
Electrolyte	KCL Gel	KCL Gel	KCL Gel	KCL Gel	KCL Gel	KCL Gel	KCL Gel
Mechanical connection	Ø 12 mm	Ø 12 mm	Ø 12 mm	Ø 12 mm	Ø 12 mm	Thread PG 13.5mm	Thread PG 13.5mm
Electrical connection	BNC (yellow)	BNC (yellow)	BNC (yellow)	BNC (yellow)	BNC (yellow)	S8	S8
Cable	1.5 m or 6 m	6 m	6 m	6 m	6 m	Not included	Not included

Kontrol Series Probe Compatibility

ORP Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
SRH1-WP-SJ	•	•	•	•	•	•	•
SRH1-WP-DJ	•	•	•	•	•	•	•
SRH1-WP-SJ-AU	•	•	•	•	•	•	•
SRH2-WP-SJ-AU	•	•	•	•	•	•	•
SRH2-WP-PT	•	•	•	•	•	•	•
SRH3-WW-DJ	•	•	•	•	•	•	•
SRH4-HT-DJ	•	•	•	•	•	•	•

SRH1-WP-SJ

Single-junction polycarbonate-body ORP probe with platinum electrode. Suitable for general laboratory, swimming pool and water-monitoring applications.

Technical features

Measurement range ±1,000 mV
Operating temp 0 – 60°C
Maximum pressure 6 bar
Electrode material Platinum
Body material PP
Diaphragm type Pellon PTFE
Junction type Single
Electrolyte KCL Gel
Mechanical connection Ø 12 mm
Electrical connection BNC (yellow) ; **Cable** 1.5 or 6 m

SRH1-WP-DJ

ORP probe with polycarbonate body, double junction and platinum electrode. Suitable for general laboratory, swimming pool and water-monitoring applications.

Technical features

Measurement range ±1,000 mV
Operating temp 0 – 60°C
Maximum pressure 6 bar
Electrode material Platinum
Body material PP
Diaphragm type Pellon PTFE
Junction type Double
Electrolyte KCL Gel
Mechanical connection Ø 12 mm
Electrical connection BNC (yellow) ; **Cable** 6 m

SRH1-WP-AU

ORP probe with single-junction polycarbonate body and gold electrode. Suitable for general laboratory, swimming pool and water-monitoring applications.

Technical features

Measurement range ±2,000 mV ; **Operating temp** 0 – 60°C
Maximum pressure 6 bar
Electrode material Gold ; **Body material** PP
Diaphragm type Pellon PTFE ; **Junction type** Single
Electrolyte KCL Gel ; **Mechanical connection** Ø 12 mm
Electrical connection BNC (yellow) ; **Cable** 6 m

SRH2-WP-AU

Single-junction epoxy-body ORP probe with gold electrode. Suitable for general laboratory, swimming pool and water-monitoring applications.

Technical features

Measurement range ±2,000 mV ; **Operating temp** 0 – 60°C
Maximum pressure 6 bar
Electrode material Gold ; **Body material** Epoxy
Diaphragm type Pellon PTFE ; **Junction type** Single
Electrolyte KCL Gel ; **Mechanical connection** Ø 12 mm
Electrical connection BNC (yellow) ; **Cable** 6 m

SRH2-WP-PT

ORP probe with single-junction polycarbonate body and platinum electrode. Suitable for general laboratory, swimming pool and water-monitoring applications.

Technical features

Measurement range ±2,000 mV ; **Operating temp** 0 – 60°C
Maximum pressure 6 bar
Electrode material Platinum ; **Body material** PP
Diaphragm type Pellon PTFE ; **Junction type** Single
Electrolyte KCL Gel ; **Mechanical connection** Ø 12 mm
Electrical connection BNC (yellow) ; **Cable** 6 m

SRH3-WW-DJ

Double-junction glass-body ORP probe with platinum electrode. Suitable for wastewater, anti-legionella disinfection, drinking water and galvanic processes.

Technical features

Measurement range ±1,000 mV ; **Operating temp** 0 – 80°C
Maximum pressure 6 bar
Electrode material Platinum ; **Body material** Glass
Diaphragm type 1 open hole diaphragm ;
Junction type Double
Electrolyte KCL Gel
Mechanical connection Thread PG 13.5 mm
Electrical connection S8 ; **Cable** not included

SRH4-HT-DJ

ORP probe with reinforced-glass body, double junction and platinum electrode. Suitable for ammonia, chrome plating, reverse osmosis, galvanic processes and bisulfite applications.

Technical features

Measurement range ±2,000 mV ; **Operating temp** 0 – 130°C
Maximum pressure 6 bar @ 130°C ; 16 bar @ 25°C
Electrode material Platinum ; **Body material** Reinforced glass
Diaphragm type Triple diaphragm with open hole ;
Junction type Double
Electrolyte KCL Gel
Mechanical connection Thread PG 13.5 mm
Electrical connection S8 ; Cable not included

Conductivity probes

State-of-the-art probes for ultra-accurate conductivity measurement

EC

Conductivity represents one of the fundamental parameters in determining the quality of water and liquids in general because it is linked to the concentration of ions responsible for electrical conduction in a solution. Electrical conductivity is the reciprocal of electrical resistivity and measures the ability of a solution to conduct an electric current when an alternating voltage is applied to a measuring cell made up of two or four electrodes. To compensate for the geometry of the cell, each probe is characterised by a constant that can be expressed in two ways which are the inverse of one another and are indicated with the letters K and C, the first expressed in cm and the second in cm^{-1}. The conductivity of a solution is generally expressed in µS/cm.

Technical features

Features	CK-1-SS-PP	CK-5-SS-PP	CK-10-SS-PP	CTK-1-SS-PP	CTK-5-SS-PP	CTK-10-SS-PP	CTK-1-SS-PF	CTK-100-SS-SS	CTK-1-GR-PP	CTK-1-GR-EX	CK-1-PT-GL	CTK-01-PT-EX	CTK-10-PT-EX	CTK-0.1-GR-EX
Measurement range	0.5 - 5,000 µS	0.1 - 1.000 µS	0.1 - 500 µS	0.5 - 5,000 µS	0.1 - 2,000 µS	0.05 - 500 µS	0.5 - 20,000 µS	0.01 - 20 µS	0.5 - 50,000 µS	0.5 - 20,000 µS	0.5 - 20,000 µS	5 - 200,000 µS	0.05 - 500 µS	0 - 500,000 µS
K [cell constant]	1 cm	5 cm	10 cm	1 cm	5 cm	10 cm	1 cm	100 cm	1 cm	1 cm	1 cm	0.1 cm	10 cm	0.1 cm
C [cell constant]	1 cm^{-1}	0.2 cm^{-1}	0.1 cm^{-1}	1 cm^{-1}	0.2 cm^{-1}	0.1 cm^{-1}	1 cm^{-1}	0.01 cm^{-1}	1 cm^{-1}	1 cm^{-1}	1 cm^{-1}	10 cm^{-1}	0.1 cm^{-1}	10 cm^{-1}
Operating temperature	0 – 60°C	0 – 60°C	0 – 60°C	0 – 80°C	0 – 80°C	0 – 80°C	0 – 100°C	-20 – 130°C	5 – 100°C	0 – 70°C	0 – 130°C	0 – 70°C	0 – 70°C	0 – 100°C
Maximum pressure	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar	2 bar	16 bar @ 130°C	5 bar	7.5 bar	6 bar	7.5 bar	7.5 bar	10 bar
Body material	PP	PP	PP	PP	PP	PP	PTFE	SS 316L	PP	Epoxy	Glass	Epoxy	Epoxy	Epoxy
Electrode material	SS 316L	SS 316L	SS 316L	SS 316L	SS 316L	SS 316L	SS 316L	SS 316L	Graphite	Graphite	Platinum	Platinum	Platinum	Graphite
Mechanical connection	½" GAS M	½" GAS M	½" GAS M	¾" GAS M	¾" GAS M	¾" GAS M	1 " GAS M	½" NPT	½" GAS M	12 mm	12 mm	12 mm	12 mm	12 mm
Electrical connection	5m cable	5m cable	5m cable	Cable not included	Cable not included	Cable not included	Cable from 5m or 10m	5m cable	Cable from 5m or 10m	6m cable	6m cable	6m cable	6m cable	6m cable
Temperature sensor	-	-	-	PT100	PT100	PT100	PT100	PT100	PT100	PT100	-	PT100	PT100	PT100

Kontrol Series Probe Compatibility

EC Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
CK-1-SS-PP	•	•	•	•	•	•	•
CK-5-SS-PP	•	•	•	•	•	•	•
CK-10-SS-PP	•	•	•	•	•	•	•
CTK-1-SS-PP	•	•	•	•	•	•	•
CTK-5-SS-PP	•	•	•	•	•	•	•
CTK-10-SS-PP	•	•	•	•	•	•	•
CTK-1-SS-PF	•	•	•	•	•	•	•
CTK-100-SS-SS	•	•	•	•	•	•	•
CTK-1-GR-PP	•	•	•	•	•	•	•
CTK-1-GR-EX	•	•	•	•	•	•	•
CK-1-PT-GL	•	•	•	•	•	•	•
CTK-0.1-PT-EX	•	•	•	•	•	•	•
CTK-10-PT-EX	•	•	•	•	•	•	•
CTK-0.1-GR-EX	•	•	•	•	•	•	•

CK-1-SS-PP

Medium conductivity probe, with steel electrodes and PP body without temperature sensor. Suitable for reverse osmosis, irrigation, wastewater, drinking water and cooling-tower water treatment.

Technical features

Measurement range 1 – 5,000 µS

Cell constant K 1 cm ; **Cell constant** C 1 cm-1

Operating temperature 0 – 60°C ; **Maximum pressure** 6 bar

Body material PP ; **Electrode material** SS316 L

Mechanical connection ½" GAS M

Electrical connection 5m cable

Temperature sensor Not present

CK-5-SS-PP

Probe for medium-low conductivity, with steel electrodes and PP body without temperature sensor. Suitable for reverse osmosis, irrigation, wastewater, drinking water and cooling-tower water treatment.

Technical features

Measurement range 0.1 – 1,000 µS
Cell constant K 5 cm ; **Cell constant C** 0.2 cm^{-1}
Operating temperature 0 – 60°C ; **Maximum pressure** 6 bar
Body material PP ; **Electrode material** SS316 L
Mechanical connection ½" GAS M
Electrical connection 5m cable
Temperature sensor Not present

CK-10-SS-PP

Low-conductivity probe, with steel electrodes and PP body without temperature sensor. Suitable for reverse osmosis and fish farming.

Technical features

Measurement range 0.1 – 500 µS
Cell constant K 10 cm ; **Cell constant C** 0.1 cm^{-1}
Operating temperature 0 – 60°C ; **Maximum pressure** 6 bar
Body material PP ; **Electrode material** SS316 L
Mechanical connection ½" GAS M
Electrical connection 5m cable
Temperature sensor Not present

CTK-1-SS-PP

Medium-conductivity probe, with steel electrodes, PP body and temperature sensor. Suitable for irrigation, wastewater, drinking water and cooling water.

Technical features

Measurement range 5 – 5,000 µS
Cell constant K 1 cm ; **Cell constant C** 1 cm^{-1}
Operating temperature 0 – 80°C
Maximum pressure 6 bar
Body material PP ; **Electrode material** SS316 L
Mechanical connection ¾" GAS M
Electrical connection Removable connector
Temperature sensor PT100

CTK-5-SS-PP

Probe for medium-low conductivity, with steel electrodes, PP body and temperature sensor. Suitable for irrigation, drinking water and cooling water.

Technical features

Measurement range 0.5 – 2,000 µS
Cell constant K 5 cm ; **Cell constant C** 0.2 cm^{-1}
Operating temperature 0 – 80°C
Maximum pressure 6 bar
Body material PP ; **Electrode material** SS316 L
Mechanical connection ¾" GAS M
Electrical connection Removable connector
Temperature sensor PT100

CTK-10-SS-PP

Low-conductivity probe, with steel electrodes, PP body and temperature sensor. Suitable for reverse osmosis and fish farming.

Technical features

Measurement range 0.01 – 500 µS
Cell constant K 10 cm ; **Cell constant C** 0.1 cm^{-1}
Operating temperature 0 – 80°C
Maximum pressure 6 bar
Body material PP ; **Electrode material** SS316 L
Mechanical connection ¾" GAS M
Electrical connection Removable connector
Temperature sensor PT100

CTK-1-SS-PF

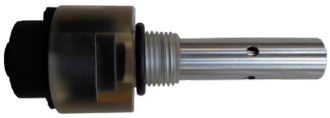
Probe for medium-high conductivity, with steel electrodes, body in PTFE and temperature sensor. Suitable for reverse osmosis, irrigation, wastewater, drinking water and cooling water.

Technical features

Measurement range 0 – 20,000 µS
Cell constant K 1 cm ; **Cell constant C** 1 cm^{-1}
Operating temperature 0 – 100°C
Maximum pressure 2 bar
Body material PTFE ; **Electrode material** SS316 L
Mechanical connection 1" GAS M
Electrical connection 5m or 10m cable
Temperature sensor PT100

CTK-100-SS-SS

Probe for extra-low-conductivity values, with steel electrodes, steel body and temperature sensor. Mainly suitable for reverse osmosis applications.



Technical features

Measurement range 0.04 – 20 µS
Cell constant K 100 cm ; **Cell constant C** 0.01 cm^{-1}
Operating temperature -20 – 130°C
Maximum pressure 16 bar @ 130°C
Body material SS316 L ; **Electrode material** SS316 L
Mechanical connection ½" NPT
Electrical connection 5m cable
Temperature sensor PT100

CTK-1-GR-PP

Probe for medium-high conductivity, with graphite electrodes and PP body loaded with graphite and temperature sensor. Suitable for drinking water, industrial processes, boilers, wastewater and salt water.

Technical features

Measurement range 0 – 50,000 µS
Cell constant K 1 cm ; **Cell constant C** 1 cm^{-1}
Operating temperature 5 – 100°C
Maximum pressure 5 bar
Body material PP + 30% Graphite ;
Electrode material Graphite
Mechanical connection ½" GAS M
Electrical connection 5m or 10m cable
Temperature sensor PT100

CTK-1-GR-EX

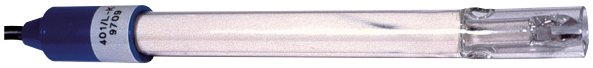
Probe for medium-high conductivity, with graphite electrodes, epoxy body and temperature sensor. Suitable for irrigation, wastewater, drinking water and cooling water.

Technical features

Measurement range 5 – 20,000 µS
Cell constant K 1 cm ; **Cell constant C** 1 cm^{-1}
Operating temperature 0 – 70°C
Maximum pressure 7.5 bar
Body material Epoxy ; **Electrode material** Graphite
Mechanical connection 12 mm
Electrical connection 6m cable
Temperature sensor PT100

CK-1-PT-GL

Probe for medium-high conductivity with platinum electrodes and glass body without temperature sensor. Suitable for reverse osmosis and fish farming.



Technical features

Measurement range 1 – 20,000 µS
Cell constant K 1 cm ; **Cell constant C** 1 cm^{-1}
Operating temperature 0 – 130°C
Maximum pressure 6 bar
Body material Glass ; **Electrode material** Platinum
Mechanical connection 12 mm
Electrical connection 6m cable
Temperature sensor Not present

CTK-01-PT-EX

High-conductivity probe with platinum electrodes, epoxy body and temperature sensor. Suitable for wastewater and salt water.

Technical features

Measurement range 100 – 200,000 µS
Cell constant K 0.1 cm ; **Cell constant C** 10 cm^{-1}
Operating temperature 0 – 70°C
Maximum pressure 7.5 bar
Body material Epoxy ; **Electrode material** Platinum
Mechanical connection 12 mm
Electrical connection 6m cable
Temperature sensor PT100

CTK-10-PT-EX

Extra-low-conductivity probe with platinum electrodes, epoxy body and temperature sensor. Suitable for irrigation, wastewater, drinking water and cooling water.

Technical features

Measurement range 0.1 – 500 µS
Cell constant K 10 cm ; **Cell constant C** 0.1 cm^{-1}
Operating temperature 0 – 70°C
Maximum pressure 7.5 bar
Body material Epoxy ; **Electrode material** Platinum
Mechanical connection 12 mm
Electrical connection 6m cable
Temperature sensor PT100

CTK-0.1-GR-EX

Probe for high conductivity, with graphite electrodes, epoxy body and temperature sensor. Suitable for irrigation, wastewater, drinking water and cooling water.

Technical features

Measurement range 0 – 500,000 µS
Cell constant K 0.1 cm ; **Cell constant C** 10 cm^{-1}
Operating temperature 0 – 100°C
Maximum pressure 10 bar
Body material Epoxy ; **Electrode material** Graphite
Mechanical connection 12 mm
Electrical connection 6m cable
Temperature sensor PT100

Dissolved oxygen probes

For precise measurement of dissolved oxygen

DO

Dissolved oxygen (DO) is a measure of the concentration of free oxygen molecules present in water. The concentration of DO is an important indicator of the health of an aquatic ecosystem and fundamental for almost all forms of life. Dissolved oxygen in water comes from two main sources: the atmosphere and photosynthesis. The main factors that affect its concentration are temperature, altitude, salinity and the water's degree of stagnation or movement.

The correct DO level depends on the intended use of the system. In industrial applications, the make-up water must have low DO levels to avoid corrosion and the formation of limescale in the pipes. A high DO level improves the taste of drinking water; however, should this become excessive it can increase corrosion in pipes and transport lines. If the DO level falls too low, for example in aquaculture applications, fish will suffocate. In similar situations, in a purification plant, the bacteria that feed the decomposition process will die and the plant will stop. For these reasons, monitoring the content of dissolved oxygen is important to ensure the efficiency of many processes. For the measurement of dissolved oxygen, SEKO proposes the following probe:

Kontrol Series Probe Compatibility

DO Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
S423C OPT PVC	-	-	•*	•*	•	-	•*
S423C OPT AISI	-	-	•*	•*	•	-	•*

*Requested an external power supply

S423C OPT PVC

Optical measurement using the luminescence method; high precision and short response time; 4 - 20 mA output. Suitable for wastewater, sludge treatment, fish farming and biological treatments.

Technical features

Measurement range 0 – 20 ppm

Nominal accuracy ± 1% ; ± 0.2 mg/l for DO <5 mg/l ; ± 0.3 mg/l for DO >5 mg/l

Response time 90% of the value in less than 60 seconds

Operating temperature 0 – 50°C

Maximum pressure 5 bar ; **Body material** PVC

Electrode material Special glass for optical applications

Mechanical protection IP68 (sensor + Cable)

Mechanical connection ¾" BSP (Ø 36 mm)

Power supply 12 – 24 Vdc

Electrical connection 10 m cable

Electric output 4 – 20 mA

S423C OPT AISI

Optical measurement using the luminescence method; high precision and short response time; 4 - 20 mA output. Suitable for wastewater, sludge treatment, fish farming and biological treatments.

Technical features

Measurement range 0 – 20 ppm

Nominal accuracy ± 1% ; ± 0.2 mg/l for DO <5 mg/l ; ± 0.3 mg/l for DO >5 mg/l

Response time 90% of the value in less than 60 seconds

Operating temperature 0 – 50°C

Maximum pressure 5 bar ; **Body material** AISI

Electrode material Special glass for optical applications

Mechanical protection IP68 (sensor + Cable)

Mechanical connection ¾" BSP (Ø 36 mm)

Power supply 12 – 24 Vdc

Electrical connection 10 m cable

Electric output 4 – 20 mA

Flow-rate sensors

FW

Guaranteeing accurate, repeatable results in flow-rate measurement

The flow can be expressed as volumetric flow rate, mass flow rate or in terms of volume or total displaced mass. The measurement is obtained using two devices: one, primary, which is placed in direct contact with the fluid and which generates a signal and one, secondary, which translates this signal into a movement or a signal to indicate, record, control or calculate the flow. Other devices indicate or calculate the flow directly through the interaction of the fluid flowing in the pipeline and the measuring device which is placed directly or indirectly in contact with the fluid.

In magnetic instruments, the voltage induced by a magnet in a conductive liquid flowing in a pipe is proportional to the velocity of the fluid. This magnetic induction principle is used in the SFWE series sensors; they have no moving parts. All flow rate meters without moving mechanical parts can also be used for the measurement of dirty liquids, as long as they are conductive and homogeneous.

The paddle wheel sensors of the SFW series use a different principle. They have a paddle wheel that rotates according to the flow rate, in whose blades small magnets are inserted. These, passing in front of a Hall sensor, generate a series of pulses whose frequency is proportional to the speed of the liquid which, multiplied by the area of the pipe section, gives the flow rate.

The 4 - 20 mA output allows the transmission of flow rate information even over a long distance. The specific design allows accurate measurement in a wide range of pipes, from DN15 (0.5 ") up to DN600 (24"). Suitable for **wastewater, sludge treatment, fish farming and biological treatment.**

Kontrol Series Probe Compatibility

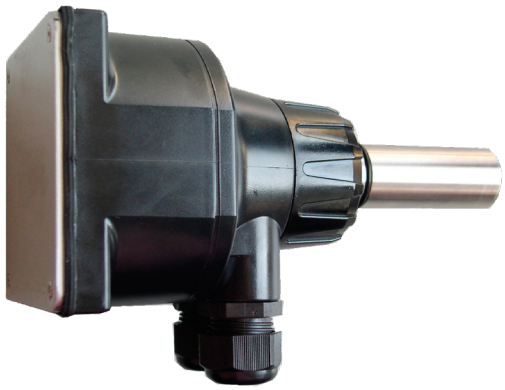
FW Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
SFW PVC-C	-	-	•	•	-	•	•
SFW SS	-	-	•	•	-	•	•
SFWE	-	-	•*	•*	•	-	•*

*Requested an external power supply

Simple and reliable paddle wheel flow sensor designed for use with any type of liquid without suspended solids

Simple and reliable paddle wheel flow sensor designed for use with any type of liquid without suspended solids. The paddle wheel flow sensor has a square wave output via NPN open collector transistor that allows connection to any type of digital input of the instrument. A specially designed family of fittings guarantees quick and easy installation for all types of pipes, of any material, in sizes from DN15 to DN600 (from 0.5 "to 24"). Suitable for **drinking water, fish farming, cooling water treatment, swimming pools and the textile industry.**

SFWE



Technical features

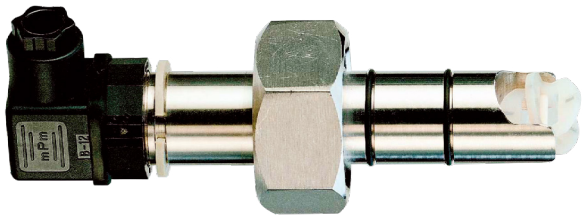
Measurement range 0.15 – 8 m/s
Pipe size range DN15 – DN600
Pressure / Operating temperature
16 bar at 25°C ; 8.6 bar at 70°C
Enclosure material ABS
Degree of protection IP65
Body material SS 316L / PVDF
Seals FPM
Electrode materials SS 316L
Electrical connection Cable not included
Mechanical connection Insertion in probe holder
Power supply 5 – 24 Vdc
Frequency output 0 – 500 Hz
Analogue output 4 – 20 mA

SFW PVC-C

Technical features

Measurement range 0.15 – 8 m/s
Pipe size range DN15 – DN600
Pressure / Operating temperature
up to 10 bar at 25°C ;
up to 1.5 bar at 80°C
Body material C-PVC
Seals EPDM or FPM
Rotor ECTFE (Halar®)
Shaft and bearings Ceramic
Electrical connection Cable not included
Mechanical connection Insertion in probe holder
Power supply 5 – 24 Vdc
Frequency output 45 Hz per m/s (nominal)

SFW SS



Technical features

Measurement range 0.15 – 8 m/s
Pipe size range DN15 – DN600
Pressure / Operating temperature
up to 25 bar at 120°C
Body material SS 316L
Seals EPDM or FPM
Rotor ECTFE (Halar®)
Shaft and bearings Ceramic
Electrical connection Cable not included
Mechanical connection Insertion in probe holder
Power supply 5 – 24 Vdc
Frequency output 45 Hz per m/s (nominal)

Chlorine probes

Ensuring consistently accurate chlorine measurement

CL

Chlorine is a compound used directly or indirectly in various sectors such as paper, antiseptics, dyes, food, insecticides, paints, petroleum products, plastics, medicines, fabrics, solvents and many other consumer products. It is used to kill bacteria and other microbes in the drinking water supply and in the swimming pools. Chlorine is also used in bleaching wood pulp for paper making, while bleach is also used industrially to remove ink from recycled paper.

Free chlorine, chlorine dioxide and total chlorine are usually measured to monitor and control the disinfection of drinking water, recycled water or water in swimming pools. In fact, when chlorine is added to water, it reacts with the organic compounds and metals present in the liquid, forming combined chlorine. Combined chlorine is not active for disinfection.

Probes for free chlorine

Free chlorine is chlorine which is present in water as hypochlorous acid (HOCl) or as hypochlorite ion (OCl^-). Its measurement guarantees the available quantity of chlorine for disinfection or purification purposes. The most robust and reliable measurement technique is the use of a potentiostatic free chlorine sensor.

Kontrol Series Probe Compatibility

FCL Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
KP-FCL 10PPM	-	•	•	•	•	•	•
FCL4	-	•	•	•	•	•	•
KP-FCL 2PPM	-	•	•	•	•	•	•
FCL6	-	•	•	•	•	•	•
FCL7	-	•	•	•	•	•	•
FCL8	-	•	•	•	•	•	•
FCL9	-	•	•	•	•	•	•
FCL10	-	•	•	•	•	•	•
KP-FCL 5PPM	-	•	•	•	•	•	•

FCL - Free Chlorine Sensor

Chlorine sensor with membrane-covered, amperometric 2-electrode system suitable for the measurement of free inorganic chlorine at constant pH. The sensor measures the concentration of free chlorine in the water being measured. Such chlorine arises from the application of inorganic chlorine products (such as chlorine gas, sodium hypochlorite solution, calcium hypo-chlorite solution).

Sealed-cell chlorine sensor, 4 - 20 mA output with Integrated automatic temperature compensation. Guaranteed accuracy with a short response time thanks to active amperometric measurement.

Suitable for the measurement of free inorganic chlorine, free of surfactants and with constant pH. Calibration is due to analytical chlorine determination by DPD-1 method.

Suitable for the treatment of drinking water, wastewater, service and process water, seawater and swimming pools.

Technical features

Inorganic free chlorine at constant pH
Measurement range
0 – 0.5 ppm / 0 – 200 ppm
pH range 6 – 8
Pressure range 0 – 1 bar

Operating temperature 0 – 45°C

Flow rate range
Approximately 15 - 30 l/h
(low flow dependence)

Body material PVC-U ;
Electrode Silver chloride with gold ;
Membrane PTFE

Electrical connection Cable not included ;
Connector Two-pole terminal

KP-FCL - Free Chlorine Sensor

Chlorine sensor with membrane-covered, amperometric 2-electrode system suitable for the measurement of inorganic/organic free chlorine with reduced pH dependence. The sensor measures the concentration of free chlorine in the water being measured. Such chlorine arises from the application of inorganic chlorine products (such as chlorine gas, sodium hypochlorite solution, calcium hypo-chlorite solution).

Sealed-cell chlorine sensor, 4 - 20 mA output with integrated automatic temperature compensation. Guaranteed accuracy with a short response time thanks to active amperometric measurement; color label for quick indication of the type of measurement.Calibration is due to analytical chlorine determination by DPD-1 method.

Suitable for the treatment of drinking water, Water treatment, Industrial applications, Brine water applications and swimming pools.

Technical features

Inorganic/Organic free chlorine
with reduced pH dependence
Measurement range
0 – 2 ppm / 0 - 5 ppm / 0 – 10 ppm
pH range 4 – 10
Pressure range 0 – 3 bar

Operating temperature 0 – 45°C

Flow rate range Approximately 30 l/h

Body material PVC Electro polished ;
Electrode Silver chloride with gold ;
Membrane KE-FCL01

Electrical connection Cable not included ;
Connector Two-pole terminal

FCL HP - Free high-pressure chlorine sensor

Sensor for the measurement of inorganic free chlorine with open measuring cell, 4 - 20 mA output and automatic temperature compensation. Guaranteed accuracy and short response time thanks to active amperometric measurement. It can be used for the measurement of free inorganic chlorine at high pressure (up to 8 bar). Ideal for drinking water, waste water, process water, sea water and swimming pools.

Technical features

Measurement range 0 – 1 ppm / 0 – 5 ppm

pH range 5 – 9

Operating temperature 0 – 50°C / 0 – 70°C

Pressure range 0 – 8 bar

Flow rate Approximately 30 l/h

Body material PVC-U, PEEK ;
Electrode Gold ;
Membrane No membrane

Electrical connection Cable not included ;
Connector Two-pole terminal

Chlorine dioxide probes

Chlorine dioxide is a neutral chlorine compound. It is very different from elemental chlorine, both in its chemical structure (ClO_2) and in its behaviour. One of the most important qualities of chlorine dioxide is its high solubility in water, especially in cold water. Chlorine dioxide does not hydrolyze when it enters the water; a dissolved gas remains in solution. Chlorine dioxide is about 10 times more soluble in water than chlorine. It is not affected by the pH and has an excellent residual effect remaining active for hours or even days. It does not interact with ammonia and is effective even at cold temperatures.

Chlorine dioxide is today one of the most powerful disinfection methods in the water industry and is extremely effective in controlling legionella. Therefore the correct measurement of its concentration in water is essential because it guarantees an effective use of chlorine dioxide for disinfection purposes and other applications. Too low a dosage can be ineffective, while overdosing can cause the formation of particularly harmful hypochlorite in the tank.

Kontrol Series Probe Compatibility

DCL Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
KP-DCL 10PPM	-	-	•	•	•	•	•
DCL-2	-	-	•	•	•	•	•
DCL-3	-	-	•	•	•	•	•
KP-DCL 2PPM	-	-	•	•	•	•	•

KP-DCL - Chlorine dioxide

Sealed-cell chlorine dioxide sensor with reduced pH dependence, 4-20 mA output with integrated automatic temperature compensation. Guaranteed accuracy, color label for quick indication of the type of measurement and short response time thanks to active amperometric measurement.

Suitable for the treatment of drinking water, Water treatment, Industrial applications, Brine water applications and swimming pools.

Technical features

Measuring range 0-2 ppm / 0 -10 ppm

pH range 1-11

Operating temperature 0 – 45°C

Pressure range 0 – 1 bar

Flow rate ≥ 30 - 60 l/h
(low flow dependence)

Body material PVC-U ; **Electrode** Gold ;
Membrane KE-DCL01

Electrical connection Cable not included ;
Connector Two-pole terminal

DCL HP - High-pressure chlorine dioxide

Open-cell chlorine dioxide sensor, 4 - 20 mA output with automatic temperature compensation. Guaranteed accuracy and short response time thanks to active amperometric measurement. Suitable for the measurement of chlorine dioxide at high pressure. Suitable for drinking water, wastewater, process water, swimming pools and seawater.

Technical features

Measurement range 0 – 1 ppm

pH range 1 – 12

Operating temperature 0 – 50°C / 0 – 70°C

Pressure range 0 – 5 bar / 0 – 8 bar

Flow rate Approximately 30 l/h

Body material PVC-U, PEEK ;
Electrode Gold ;
Membrane No membrane

Electrical connection Cable not included ;
Connector Two-pole terminal

Total chlorine probe

Total chlorine is the combination of the free chlorine left in the water and the combined chlorine. Total chlorine sensors are commonly used in wastewater treatment plants to measure the residual disinfection power of effluent water.

Kontrol Series Probe Compatibility

TCL Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
KP-TCL 10PPM	-	-	•	•	•	•	•
KP-TCL 5PPM	-	-	•	•	•	•	•
TCL-3	-	-	•	•	•	•	•

TCL - Total chlorine

Total chlorine sensor with sealed cell, 4 - 20 mA output and automatic temperature compensation. Guaranteed accuracy and short response time thanks to active amperometric measurement. Suitable for drinking water, swimming pools and sea water.

Technical features

Measurement range 0 – 5 ppm / 0 – 10 ppm

pH range 4 – 12 (linear decrease with around 5% when pH level increases by one)

Operating temperature 0 – 45°C

Pressure range 0.5 bar

Flow rate Approximately 30 l/h

Body material PVC-U, PEEK, SS 1.4571 ;
Electrode Silver chloride with gold ;
Membrane PTFE

Electrical connection Cable not included ;
Connector Two-pole terminal

KP-TCL - Total chlorine

Total chlorine sensor with sealed cell, 4 - 20 mA output and automatic temperature compensation. Guaranteed accuracy and short response time thanks to active amperometric measurement. Suitable for drinking water, swimming pools and sea water.

Technical features

Measurement range 0 – 2 ppm

pH range 4 - 12

Operating temperature 0 – 45°C

Pressure range 0 - 1 bar

Flow rate ≥ 30 - 60 l/h
(low flow dependence)

Body material PVC Electro polished ;
Electrode Silver chloride with gold ; \
Membrane KE-TCL01

Electrical connection Cable not included ;
Connector Two-pole terminal

Probes for peracetic acid

For superior peracetic acid measurement

PAA

Peracetic acid is also used for the spray washing of food products and for the disinfection of cooling water systems. As a disinfectant agent, PAA is often preferred over chlorine products because it does not dissociate into potentially harmful products. Peracetic acid sensors are amperometric devices isolated from water by a permeable membrane. When the PAA diffuses through this membrane, it comes into contact with an active electrode and is reduced on its surface. Consequently, the sensor generates a current proportional to the concentration of PAA. Peracetic acid sensors require a constant flow of the liquid under examination through the membrane placed on the tip of the probe. Sample agitation is required and therefore not recommended in still water.

Kontrol Series Probe Compatibility

PAA Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
PAA-1	-	-	•	•	•	-	•
PAA-2	-	-	•	•	•	-	•
PAA-3	-	-	•	•	•	-	•
PAA-4	-	-	•	•	•	-	•

PAA - Peracetic acid

Peracetic acid sensor with 4 - 20 mA output and automatic temperature compensation. Precision, accuracy and reliability guaranteed with a very short response time. Suitable for fresh water and for all types of water treatment, especially for disinfection in sensitive uses, in the food, pharmaceutical and medical sectors. Can also be used in wastewater treatment.

Technical features

Measurement range
0 – 200 ppm / 0 – 500 ppm /
0 – 2,000 ppm / 0 – 5,000 ppm

pH range 1 – 6

Operating temperature 0 – 45°C

Pressure range 0 – 1 bar

Flow rate Approximately 30 l/h

Body material PVC-U, SS 1.4571 ;
Electrode Silver chloride with gold ;
Membrane PTFE

Electrical connection Cable not included ;
Connector Two-pole terminal

Probes for hydrogen peroxide

Achieve repeatable results in hydrogen peroxide measurement

H_2O_2

Hydrogen peroxide is also used for washing food products and for disinfecting cooling water systems. As a disinfectant agent it is often preferred to chlorine-based products because it does not separate into potentially harmful products. Hydrogen peroxide sensors are amperometric devices isolated from water by a permeable membrane. When the peroxide diffuses through this membrane, it comes into contact with an active electrode and reduces on its surface and, consequently, the sensor generates a current proportional to its concentration. The sensors require a constant flow of the liquid under test through the membrane placed on the tip of the probe. Sample agitation is required and therefore not recommended in still water.

Kontrol Series Probe Compatibility

H2O2 Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
H2O2-1	-	-	•	•	•	-	•
H2O2-1 HIGH	-	-	•	•	•	-	•
H2O2-2	-	-	•	•	•	-	•
H2O2-3 HIGH	-	-	•	•	•	-	•

H_2O_2 - Hydrogen peroxide

Hydrogen peroxide sensor with low flow rate dependence, with 4 - 20 mA output, membrane resistant and insensitive to surfactants and automatic thermal compensation. Guaranteed precision and accuracy, plus quick commissioning thanks to reduced initialisation times. No faults caused by turbidity or colouring courtesy of the amperometric measurement principle.

Technical features

Measurement range
0 – 200 ppm / 0 – 500 ppm
0 – 20,000 ppm / 0 – 200 ppm
(High concentration)

pH range 2 – 11

Operating temperature 0 – 45°C

Pressure range 0 – 1 bar

Flow rate Approximately. 30 l/h

Body material PVC-U, SS 1.4571

Electrode Silver chloride with gold

Membrane PTFE

Electrical connection Not included ;
Connector Two-pole terminal

Bromine probes

For superior bromine measurement

Br

As an alternative to chlorine compounds, bromine compounds are increasingly used for the disinfection of water, despite the greater reagent costs. In disinfection, bromine has some advantages over chlorine compounds: greater disinfectant action at high pH values, less volatility at higher temperatures, less resulting corrosion, less formation of unpleasant odours and finally less irritation of mucous membranes due to bromine compounds liberated (bromine combined).

Kontrol Series Probe Compatibility

BR Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
KP-BR 10PPM	-	-	•	•	•	-	•

KP-Br - Bromine

Sealed-cell bromine sensor, 4 - 20 mA output and automatic temperature compensation. Guaranteed accuracy and short response time, thanks to active amperometric measurement. Suitable for process water, cooling water, swimming pool and seawater.

Technical features

Measurement range 0.05 – 10 ppm

pH range 5 – 9

Operating temperature 0 – 45°C

Pressure range 0 – 1 bar

Flow rate ≥ 30 l/h to 60 l/h
(low flow dependence)

Body material PVC Electro polished ;
Electrode Silver chloride with gold ;
Membrane KE-BR01

Electrical connection Cable not included ;
Connector Two-pole terminal

Ozone probes

For professional ozone measurement

O_3

Ozone is currently the second most widely used disinfectant for drinking water after chlorine, although its use is almost exclusively limited to industrial countries that have efficient water networks. Therefore, it is used to pre-treat the source of water at the origin and subsequently allow chlorination with a lower dose of chlorine in the distribution system. Although ozonation has the power to effectively disinfect water, this method is not suitable for most applications in developing countries due to the high cost and the need for maintenance infrastructure.

Kontrol Series Probe Compatibility

O3 Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
OZ-1	-	-	•	•	•	-	•
OZ-2	-	-	•	•	•	-	•
OZ-3	-	-	•	•	•	-	•

O_3 - Ozone

Ozone sensor with 4 - 20 mA output, surfactant resistant membranes and automatic temperature compensation. Guaranteed precision and accuracy with a short response time thanks to the active amperometric measurement. Long service life courtesy of membrane-covered measuring electrodes inserted into an electrolyte. In this way, optimal measurement conditions can be maintained regardless of process conditions. Suitable for fresh water ready for use and salt water.

Technical features

Measurement range
0 – 2 ppm / 0 – 5 ppm / 0 – 10 ppm

pH range 2 – 11 / 4 - 9

Operating temperature 0 – 45°C

Pressure range 0 – 1 bar

Flow rate Approximately 30 l/h

Body material PVC-U, SS 1.4571

Electrode Silver chloride with gold

Membrane PTFE

Electrical connection Cable not included

Connector Two-pole terminal

Turbidity probes

The professionals' choice for repeatable turbidity measurement

TB

The term turbidity indicates the reduction in transparency of a water sample due to the presence of suspended substances. The measurement of water turbidity is based on the amount of light scattered by the particles present in the water column and is considered a good measure of water quality.

Technical features

Features	S462-PW	S461-LT	S461-LT-SS	S461-MT	S461-ST	S461-HT
Measurement range	0 – 10 NTU/FTU	0 – 10 NTU	0 – 10 NTU	0 – 100 NTU	0 – 1000 NTU	0 – 4000 NTU
Measurement method	Scattered light	Scattered light at 90°	Scattered light at 90°	Scattered light at 90°	Scattered light at 90°	Scattered light at 90°
Operating temperature	0 – 60°C	0 – 50°C	0 – 50°C	0 – 50°C	0 – 50°C	0 – 50°C
Maximum working pressure	6 bar	4 bar	4 bar	4 bar	4 bar	4 bar
Body material	PVC black	PVC black	SS 316L	PVC black	PVC black	PVC black
Seals material	//	Viton and silicone	Viton and silicone	Viton and silicone	Viton and silicone	Viton and silicone
Optical group	Positioned at 180° mounted on a PVC flange	Special glass with oleophobic treatment	Special glass with oleophobic treatment	Special glass with oleophobic treatment	Special glass with oleophobic treatment	Special glass with oleophobic treatment
Mechanical connection	N. 2 - 2 ½" female threads Quick coupling from 10x12 mm	1" GAS (Ø 42 mm); IP68	1" GAS (Ø 42 mm); IP68	1" GAS (Ø 42 mm); IP68	1" GAS (Ø 42 mm); IP68	1" GAS (Ø 42 mm); IP68
Power supply	External adapter 12 - 24 Vdc	12 – 24 Vdc	12 – 24 Vdc	12 – 24 Vdc	12 – 24 Vdc	12 – 24 Vdc
Electrical connection	2 x 5m cable	10 m cable	10 m cable	10 m cable	10 m cable	10 m cable
Analogue output	4 – 20 mA	4 – 20 mA	4 – 20 mA	4 – 20 mA	4 – 20 mA	4 – 20 mA

Kontrol Series Probe Compatibility

TB Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
S462 PW	-	-	•*	•*	•	-	•*
S461 LT	-	-	•*	•*	•	-	•*
S461 LT SS	-	-	•*	•*	•	-	•*
S461 MT	-	-	•*	•*	•	-	•*
S461 ST	-	-	•*	•*	•	-	•*
S461 HT	-	-	•*	•*	•	-	•*

*Requested an external power supply

S462 PW

The measuring principle of the probe is based on the deviation of the light produced by the suspended particles in the liquid. The absence of contact with the measuring liquid and the LED optical technology makes the system stable over time and minimises the need for recalibration. Suitable for water treatment, filtration or decantation plants, wastewater refining for agricultural or industrial reuse, swimming pools and the food industry, especially wine and beer production.

Technical features

Measurement range 0 – 10 NTU/FTU

Measurement method Scattered light

Operating temperature 0 – 40°C

Maximum pressure 6 bar

Body material PVC black

Optics and sensor 180° positioned and flange mounted in PVC

Mechanical connection 2 female threads of 2 1/2" 10 x 12mm quick coupling

Power supply 12 – 24 Vdc (using an external power supply)

Electrical connection 5-metre bipolar or tripolar cables for projector and receiver connection on external 4 - 20 mA adapter

Electric output 4 – 20 mA (industrial standard)

S461 LT

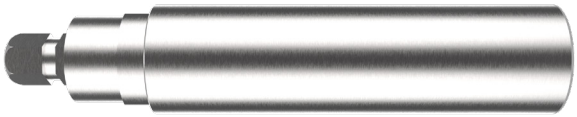
Sensor suitable for low turbidity levels; made of PVC with 4 - 20 mA output. Guaranteed accuracy and short response time. Suitable for water-treatment, swimming pools and drinking water applications.

Technical features

Measurement range 0 – 10 NTU
Measurement method Scattered light at 90°
Operating temperature 0 – 40°C
Maximum pressure 4 bar ; **Body material** PVC black
Seals Viton and silicone
Optics Special glass with oleophobic treatment
Mechanical connection 1" GAS (Ø 42 mm); IP68
Power supply 12 – 24 Vdc ; **Electrical connection** 10 m cable
Electric output 4 – 20 mA

S461 LT SS

Sensor suitable for low turbidity made of steel with 4 - 20 mA output. Guaranteed accuracy and short response time. Suitable for the food industry and for the beverage packaging sector.



Technical features

Measurement range 0 – 10 NTU
Measurement method Scattered light at 90°
Operating temperature 0 – 40°C
Maximum pressure 4 bar ; **Body material** SS316 L
Seals Viton and silicone
Optics Special glass with oleophobic treatment
Mechanical connection 1" GAS (Ø 42 mm); IP68
Power supply 12 – 24 Vdc ; **Electrical connection** 10 m cable
Electric output 4 – 20 mA

S461 MT

Low/medium-turbidity sensor in PVC, with 4 - 20 mA output. Guaranteed accuracy and short response time. Suitable for untreated water, well water, surface water and waste water.

Technical features

Measurement range 0 – 100 NTU
Measurement method Scattered light at 90°
Operating temperature 0 – 40°C
Maximum pressure 4 bar
Body material PVC black
Seals Viton and silicone
Optics Special glass with oleophobic treatment
Mechanical connection 1" GAS (Ø 42 mm); IP68
Power supply 12 – 24 Vdc ; **Electrical connection** 10 m cable
Electric output 4 – 20 mA

S461 ST

Sensor suitable for medium/high-turbidity values; made of PVC and equipped with 4 - 20 mA output. Guaranteed accuracy and short response time. Suitable for untreated water, well water, surface water and waste water.

Technical features

Measurement range 0 – 1000 NTU
Measurement method Scattered light at 90°
Operating temperature 0 – 40°C
Maximum pressure 4 bar
Body material PVC black
Seals Viton and silicone
Optics Special glass with oleophobic treatment
Mechanical connection 1" GAS (Ø 42 mm); IP68
Power supply 12 – 24 Vdc ; **Electrical connection** 10 m cable
Electric output 4 – 20 mA

S461 HT

Sensor used for high-turbidity values; made of PVC, with 4 - 20 mA output. Guaranteed accuracy and short response time. Suitable for sludge treatment.

Technical features

Measurement range 0 – 4000 NTU
Measurement method Scattered light at 90°
Operating temperature 0 – 40°C
Maximum pressure 4 bar
Body material PVC black
Seals Viton and silicone
Optics Special glass with oleophobic treatment
Mechanical connection 1" GAS (Ø 42 mm); IP68
Power supply 12 – 24 Vdc
Electrical connection 10 m cable
Electric output 4 – 20 mA

Probes for suspended solids

SS

Monitoring suspended solids in industrial and wastewater is useful for process control

Sensors for suspended solids are optical devices that operate in the infrared range. Unlike turbidity probes, they use "back-diffusion" to allow the detection of suspended solids larger than those found by turbidity sensors and to measure the concentration. Operation using infrared light ensures a very long sensor life and minimises the effects of colour change in the sample.

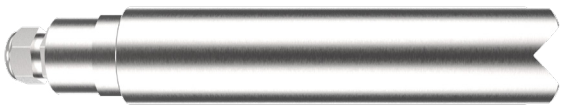
Kontrol Series Probe Compatibility

SS Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
S461 S	-	-	•*	•*	•	-	•*

*Requested an external power supply

S461 S

Suspended solids sensor with steel body and 4 - 20 mA output. Precision and degree of accuracy guaranteed with excellent response time control. Suitable for sludges from biological processes, paper mills, chemical industry, food, extraction plants, quarries, tunnel construction and aggregate extraction.



Technical features

Measurement range 0 – 30 g/l
Measurement method Absorption of light
Operating temperature 0 – 40°C
Maximum pressure 4 bar
Body material SS 316 L
Seals Viton ; **Optics** Special glass
Mechanical connection 1" GAS (Ø 42 mm); IP68
Power supply 12 – 24 Vdc
Electrical connection 10 m cable
Electric output 4 – 20 mA

Temperature probes

For ultra-reliable, consistent temperature measurement

°C°F

Temperature is a critical parameter for determining water quality and is of fundamental importance for the environment. It determines the maximum concentration of dissolved oxygen in the water and affects the speed of chemical and biological reactions. Temperature is intrinsically a measure of the thermal state of a material.

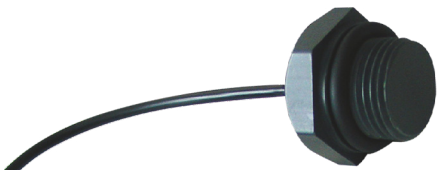
One of the most-used methods to determine temperature is measurement by using a resistance thermometer. Resistance thermometers offer great stability, accuracy and repeatability. The advantages of platinum resistance thermometers include high precision and a wide operating range. The electrical resistance of the sensor used in this type of thermometer, called RTD, changes as the temperature varies; rising in line with temperature increase and for this reason it is defined as PTC (Positive Temperature Coefficient). The measurement of the electrical resistance value therefore allows the user to determine the temperature under examination.

In industrial applications, PT100 sensors are widely used. The abbreviation PT indicates that the sensor is made of platinum (Pt), while the number 100 establishes that the sensor has an electrical resistance of 100 ohms at 0°C.

Kontrol Series Probe Compatibility

ORP Probes	Kontrol 40	Kontrol 42	Kontrol 65	Kontrol 100	Kontrol 102	Kontrol 800	Kontrol 800 Tech
PT100 V	•	•	•	•	•	•	•
PT100 VPG	•	•	•	•	•	•	•
PT100 NUT-1/2G	•	•	•	•	•	•	•
PT100 NUT-3/4G	•	•	•	•	•	•	•

PT100 NUT



Technical features

Measurement range 0 – 50°C

Pressure range 0 – 7 bar @ 20°C

Body material PVC

Sensor PT100

Electrical connection 3 m 2-wire cable ;
Mechanical connection ½" Gas M

Electrical connection 2 m 3-wire cable ;
Mechanical connection ¾" Gas M

PT100 V

Technical features

Measurement range -10 – 130°C

Pressure range 0 – 7 bar @ 60°C

Body material Pyrex

Sensor PT100

Electrical connection 5 m tripolar cable ;
Mechanical connection 12 mm

PT100 VPG

Technical features

Measurement range -10 – 130°C

Pressure range 0 – 7 bar @ 60°C

Body material Pyrex

Sensor PT100

Electrical connection 5 m tripolar cable ;
Mechanical connection PG 13.5 mm

Probe Holders

Product Overview

					
Model	Modular probe holders	Flow-through probe holders	In-line probe holders	Immersion probe holders	Certified buffer solutions
Probe Accommodation	1 - 6	1 - 3	1	1	

Features & benefits

- Choose from modular, continuous flow, immersion, and in-line insertion models to suit any application.
- Built with high-quality materials to ensure long-lasting performance in harsh environments.
- Delivers precise and reliable data for optimal system control and efficiency.
- Perfectly suited for industries like water treatment, cooling towers, and swimming pools.
- Designed for quick setup and minimal upkeep, saving time and reducing downtime.
- Engineered to integrate seamlessly with a variety of systems across diverse industries and locations.

Probe Holders

Patented modular probe holder, with open amperometric cell for chlorine measurement (organic and inorganic) and flow sensor

Open amperometric probes offer stable and accurate measurements to determine chlorine concentration. They exploit the potential difference that is created between a pair of electrodes, one copper and the other platinum, when they are crossed by a stable flow of water in which chlorine ions are present. This type of cell is normally positioned by creating a "by-pass", in parallel to the main pipeline of the process, and making sure that it is crossed by a constant flow which, to ensure the best measurement quality, must be stabilised around 15.9 gph.

The modular system created by SEKO (covered by an industrial patent) consists of an amperometric cell that can be mechanically coupled to other probe-holder modules, intended to house probes for pH, ORP and temperature along with potentiostatic probes for the determination of other substances. A further module allows the user to view the flow rate of the liquid that passes through the probe-holder block; a "reed" type sensor, placed in correspondence with the value of 15.9 gph, allows it to obtain a consent signal when the flow in the probe holder is optimal.

Chlorine amperometric cell

Technical features

Measurement range 0 – 5 ppm

pH range 6.5 – 8.2

Operating temperature 0 – 60°C

Pressure range 0 – 6 bar

Electrodes Copper and platinum

PSS Plexi

Probe holder in PMMA, resistant up to five bar of pressure and an operating temperature of 60°C.

There are 12 different modules that can accommodate all our probes and the modular configuration allows users to assemble up to six together, thus creating various configurations, able to satisfy every need.

The modules are designed to perfectly fit our range of probes and ensure perfect measurement in every water-treatment application.

Technical features

Body Material Transparent PMMA

For probes from PG 13.5, 24, 36, 42 mm

Operating temperature 0 – 60°C

Pressure range 0 – 5 bar

Flow rate range Approximately 60 l/h

Hydraulic connection 8 x 12 mm tube

Infinitely variable **up to six probes:**

pH ORP EC DO CL PAA

H_2O_2 Br O_3 TB °C°F

Probe holder for continuous flow, immersion and in-line insertion

A complete range of probe holders for professional installations

SEKO's range of probe holders offers safety, reliability and convenience when it comes to measuring pH, ORP, dissolved oxygen and conductivity. The product range extends from immersion, in-line and continuous flow supports, up to fully-automated calibration and cleaning systems.

For correct operation, the probes must always be installed using supports that ensure correct mechanical protection and the degree of impermeability. The probes can be immersed in tanks, inserted in pipes or placed in sample collection containers.

Flow-through holders

Used for measurement in either a by-pass or directly in the main pipeline for all industrial processes

The PSS7 is used for in-line measurements, in which a part of the flow of the liquid under examination is taken from the main line to pass it through the probe holder

Single

The probe holder can be used by passing water from a pressure pipeline through it, at up to 6 bar. The material of the probe holder is characterised by good transparency and excellent resistance to chemical agents.

Suitable for process applications where up to three different sensors can be used in the same beaker and especially suited to wastewater, fish farming and oxidation sludge.

Technical features

Material (head) PP (Polypropylene)
Material (glass) SAN (Styrene Acrylonitrile)
Probe holder housing Female thread ¾" GAS
Hydraulic connection 4 x 6 mm / 8 x 12 mm (tube)
Operating temperature 0 – 40°C
Pressure range 0 – 6 bar
Accommodates one probe for: pH EC ORP °C°F

The PSS8 is an essential component in any water-treatment application requiring a simple solution for the installation of one or more probes

The PSS8 series is the ideal solution for the installation of probes in by-pass configuration and is the result of SEKO's long experience in the design and construction of probe holders. Once installed, the measurement electrode is always in contact with the fluid, providing an accurate and reliable measurement. Available in four different versions to meet all needs for the industrial process sector.

Main features:

- Pressure range: 1 bar @ 50°C ; 2 bar @ 40°C ; 5 bar @ 20°C
- Adapters for PG 13.5, 12, 24, 33, 36, 42 mm probes
- Hydraulic connections with 8 x 12 mm hose
- Integrated "reed" flow sensor, already active at 0.5 bar
- Wall mounting with integrated bracket
- Compatibility with pH 2.7 to 12
- Suitable for reverse osmosis, irrigation, wastewater, drinking water and cooling water applications

PSS8 A / PSS8 A HP

Technical features

Material (head) PP Black

Material (glass) Transparent PMMA

Probe holder housing PG 13.5 and 12 mm

Operating temperature 0 – 40°C

Pressure range
0 – 2 bar – standard version
0 – 5 bar – HP version

pH range 4 – 10

Flow sensor Integrated reed

Accommodates three probes for: pH ORP EC °C°F

PSS8 A1 / PSS8 A1 HP

Technical features

Material (head) PP black

Material (glass) PP black

Probe holder housing PG 13.5 and 12 mm

Operating temperature 0 – 40°C

Pressure range
0 – 2 bar – standard version
0 – 5 bar – HP version

pH range 2.7 – 12

Flow sensor Integrated reed

Accommodates three probes for: pH ORP EC °C°F

PSS8 B1 HP

Technical features

Material (head) PP black

Material (glass) PP black

Probe holder housing 33, 36 and 42 mm

Operating temperature 0 – 40°C

Pressure range 0 – 5 bar

pH range 2.7 – 12

Flow sensor Integrated reed

Accommodates one probe for: DO TB SS

PSS8 C

Technical features

Material (head) PP black

Material (glass) Transparent PMMA

Probe holder housing 24 mm

Operating temperature 0 – 40°C

Pressure range 0 – 2 bar

pH range 4 – 10

Flow sensor Integrated reed

Accommodates one probe for: CL PAA H_2O_2 Br O_3

In-line probe holder

Suitable for aggressive chemical processes as well as for applications with high-level hygiene requirements

These probe holders are used to insert a probe directly into the tube where the process liquid passes. The probes must be positioned vertically or inclined, at a maximum of 45°, in the direction of the flow. The section of the pipeline, where the probe is inserted, must always be between two taps or isolation valves, so that the flow can be interrupted or diverted during the maintenance phase of the probe or system.

PSS3 S

Simple and short pressurised connection in PP for low/medium operating pressure, which allows the insertion of a probe directly into the pipe where the liquid to be measured passes with a maximum inclination of 45° in the direction of flow. Suitable for swimming pools and irrigation systems.

Technical features

Body material PP
Probe holder housing 12 mm
Hydraulic connection ½" GAS Male Thread
Operating temperature 0 – 60°C
Pressure range 0 – 7 bar
Accommodates one probe for: pH ORP EC °C°F

PSS3

Pressurised connection for high pressure in PVC, which allows the insertion of a probe directly into the pipe where the liquid to be measured passes with a maximum inclination of 45° in the direction of the flow. Suitable for swimming pools, wastewater, cooling water and irrigation systems.

Technical features

Body material PVC
Probe holder housing PG 13.5 and 12 mm
Hydraulic connection ½" GAS M
Operating temperature 0 – 60°C
Pressure range 0 – 12 bar
Accommodates one probe for: pH ORP EC °C°F

SPP

Pressurised fitting for very high pressures that allows the insertion of a probe directly into the pipe where the liquid to be measured passes, with a maximum inclination of 45° in the direction of the flow. Suitable for swimming pools, wastewater, cooling water and irrigation systems.

Technical features

Body material PP and PVC
Probe holder housing PG 13.5 and 12 mm
Hydraulic connection 1" GAS female thread
Operating temperature 0 – 60°C
Pressure range 0 – 16 bar
Accommodates one probe for: pH ORP EC °C°F

SPP FIL

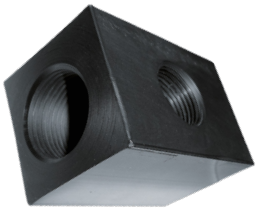
Pressurised fitting for very high pressures that allows the insertion of a probe directly into the pipe where the liquid to be measured passes, with a maximum inclination of 45° in the direction of the flow. Suitable for swimming pools, wastewater, cooling water and irrigation systems.

Technical features

Body material PP and PVC
Probe holder housing PG 13.5 and 12mm
Hydraulic connection 1" GAS female thread
Operating temperature 0 – 60°C
Pressure range 0 – 16 bar
Accommodates one probe for: pH ORP EC °C°F

PSS EC

Drain support for Model CTK1, 5 and 10 conductivity probes. Suitable for cooling towers, reverse osmosis and irrigation systems.



Technical features

Body material PVC black
Probe holder housing ¾" Gas female thread
Hydraulic connection 1" GAS female thread
Operating temperature 0 – 50°C
Pressure range 0 – 6 bar
Accommodates one probe for: EC

Saddle brackets for SFW sensors

Bracket for mounting over pipes from DN50 to DN200. Allows the insertion of a paddle wheel flow sensor of the SFW family. Suitable for cooling-towers, reverse osmosis and irrigation systems.

Technical features

Body material PVC ; Gasket FPM/EPDM
Mechanical connection
1 ¼" GAS female or T-flange
Probe holder housing ¾" GAS female
Operating temperature 0 – 50°C
Pressure range 0 – 10 bar
Accommodates one probe for: FW

Probe holder for immersion probes

Robust and reliable interface for industrial measurement processes in tanks, basins and pipes

SEKO immersion probe holders can be adapted to any type of industrial process. Measurements can be performed with up to two sensors at the same time, at diving depths of up to four metres. Custom adaptations and cleaning equipment complete the list of features of the immersion probe holders. The models with an adjustable flange can be used in combination with a counter flange which allows for quick and easy installation and removal.

PI

Guarantees correct mounting and mechanical protection by providing a high degree of waterproofing for the sensors. Submersible in tanks, which can be inserted into pipes or placed inside containers. Suitable for wastewater, fish farming and oxidation sludge.

Technical features

Body material PVC
Probe holder housing PG 13.5 and 12 mm
Mechanical connection Non-adjustable flange
Depth of immersion 400 – 2,000 mm
Operating temperature 0 – 40°C
One probe for pH ORP EC

PIR

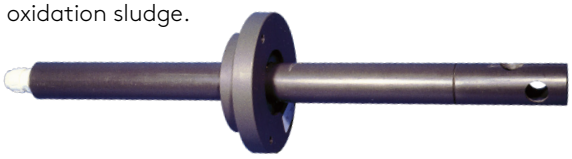
Provides high mechanical protection and superior impermeability for sensors. Submersible in tanks, insertable in pipes or placed in containers. Suitable for wastewater, fish farming, biological treatment and oxidation sludge.

Technical features

Body material PVC
Probe holder housing PG 13.5 and 12 mm
Mechanical connection
Adjustable flange; FER optional
Depth of immersion 200 – 1,500 mm
Operating temperature 0 – 40°C
One probe for pH ORP EC

PIR2

Guarantees correct assembly and high mechanical protection, giving an excellent degree of impermeability to sensors. Submersible in tanks, insertable in pipes or placed in containers. Suitable for wastewater, fish farming, biological treatment and oxidation sludge.

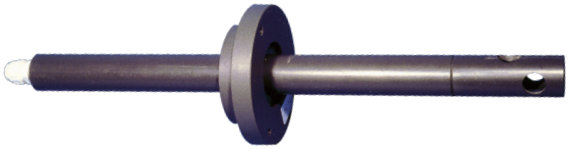


Technical features

Body material PP
Probe holder housing PG 13.5 and 12 mm
Mechanical connection Adjustable flange
Depth of immersion 400 – 1,000 mm
Operating temperature 0 – 80°C
One probe for pH ORP EC

PCIR

Guarantees correct mounting with ¾" adapter for CTK conductivity sensors. Submersible in tanks, insertable in pipes or placed in containers. Suitable for wastewater and biological treatment.

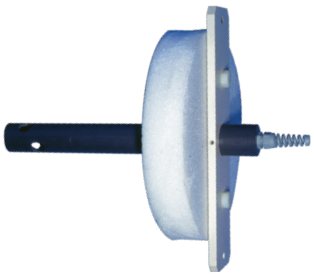


Technical features

Body material PP
Probe holder housing ¾" GAS male
Mechanical connection Adjustable flange
Immersion depths 400 – 1,500 mm
Operating temperature 0 – 80°C
One probe for EC

PI G

Ensures correct mounting and provides high mechanical protection with a superb degree of waterproofing for sensors. Submersible in tanks, insertable in pipes or placed in containers with adjustable flanges. Mechanical connection is ensured by means of an anchor arm. Suitable for wastewater, fish farming, biological treatment and oxidation sludge.



Technical features

Body material PVC
Probe holder housing PG 13.5 and 12 mm
Mechanical connection B-PI-G in PP
Depth of immersion Up to 2 metres deep by means of an anchor arm
Operating temperature 0 – 40°C
One probe for pH ORP EC

PI A

Immersion fitting with rinsing function to clean the sensor without opening or disassembling the fitting. Ensures long-term consistency of measurement, reducing the need for ongoing maintenance. Submersible in tanks, insertable in pipes or placed in containers with adjustable flanges. Suitable for wastewater, fish farming, biological treatment and oxidation sludge.

Technical features

Body material PVC
Probe holder housing PG 13.5 and 12 mm
Mechanical connection Adjustable flange
Depth of immersion 400 – 800 mm
Operating temperature 0 – 40°C
Pressure range 0 – 6 bar
Flow rate 100 – 600 l/h
One probe for pH ORP EC

S315 O

Immersion fitting with 45° bend for probes used to measure dissolved oxygen in water, tanks and pipes. Suitable for water treatment, biological treatment and fish farming.

Technical features

Body material PP with 45° PVC curve

Probe holder housing ¾" GAS (Ø 42 mm)

Depth of immersion 500 – 2,500 mm

Optional adapter flange for backwashing

Operating temperature 0 – 80°C

One probe for DO

S315 F

Immersion fitting for turbidity and suspended solids sensors and measurement in tanks and pipes. Suitable for primary and wastewater treatment plants, chemical paper industry, food, extraction plants, fish farming and biological treatment.

Technical features

Body material PP

Probe holder housing 1" GAS (Ø 42 mm)

Depth of immersion 500 – 1,500 mm

Optional adapter flange for backwashing

Operating temperature 0 – 80°C

One probe for TB SS

Certified buffer solutions

Guaranteeing superior accuracy in measuring instrument calibration

SEKO's standard conductivity solutions and pH buffers are essential for calibrating water quality testers, ensuring accurate pH, redox, and conductivity measurements. The special double-cap container keeps solutions fresh and uncontaminated, providing high pH stability for up to five years while preventing microorganism growth. Now UFI Certified, these solutions meet the latest safety and regulatory standards.

KIT STPH

Technical features

SEKO offers a kit of certified and low-cost pH buffers to satisfy the non-professional user by providing a product in 70 cc bottles that meet all the essential needs in a swimming pool.

For pH value 4.00 and 7.00

Volume 70 cc per bottle

Conductivity pH

KIT STPHRX

Technical features

SEKO offers a certified, low-cost pH and ORP kit to meet all non-professional needs in 70cc bottles each. Ideal for the needs of the swimming pool sector.

For pH value 4.00/7.00 and ORP values of +465 mV

Volume 70 cc per bottle

Conductivity pH ORP

STPH

Technical features

SEKO offers a selection of high-quality pH buffer solutions to meet all market needs.

For pH value 4.00/7.00/9.22/10.01

Reference temperatures 25°C

Volume 250ml per bottle/500 ml only for ph 10.01

Conductivity pH

STRX 465

Technical features

ORP buffer solutions are used for testing all common ORP sensors. They are not used for calibration purposes and are sensitive to changes in temperature.

For ORP values of +465 mV

Reference temperatures 25°C

Volume 250 ml

Conductivity ORP

STMS

Technical features

SEKO offers conductivity standards whose stability of ± 1% is guaranteed for a maximum duration of three years. They can be used repeatedly as long as the bottle is not left open for more than 1 hour in total.

MS 8 for conductivity values of 84 µS

MS 14 for conductivity values of 1423 µS

MS 128 for conductivity values of 12880 µS

Reference temperatures 25°C

Volume 500 ml

Conductivity EC

Globally Present, Locally Active

Twenty-three national SEKO companies across six continents means that, wherever you are, you enjoy the same exceptional level of service as every SEKO customer around the world.

And an accredited partner distributor network allows us to provide local customer support in over 120 countries, so you benefit from region-specific knowledge and rapid delivery of goods as well as world-class after-sales service and technical assistance.

SEKO Hub

A world of SEKO in one

For everyone from buyers and engineers to end users, SEKO Hub is the ultimate all-encompassing platform that brings you to the heart of SEKO and gives you what you need when you need it.

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