KONTPOLSERIES measuring and control instruments







innovation > technology > future

Measuring and control instruments, Assembled Panels,

Model	Measurement scales						Galvanically	
	рН	Rx	Cond.	CI	02	FTU	°C / °F ^(*)	isolated outputs
kontrol 40								
PR40	0÷14 pH	±1500 mV					~	1
CD40			1÷50000 µS				v	
kontrol 500								
PR500	0÷14 pH	±1500 mV					~	
CL500				0÷20 ppm			~	
CD500			1÷20000 µS				~	2
0X500					0÷20 ppm		~	
TB500						0÷100 FTU	~	
assembled panels								
kontrol PRC	0÷14 pH	±999 mV		0÷5 ppm			°C	
kontrol CL				0÷5 ppm			°C	
kontrol PR	0÷14 pH	±999 mV					°C	2
kontrol PC	0÷14 pH			0÷5 ppm			°C	
photometer systems								
				0÷5 ppm			~	
				0÷5 ppm			~	4
	0÷14 pH			0÷5 ppm			~	
	0÷14 pH	±1500 mV		0÷5 ppm			V	

 $\ensuremath{^{(^{*})}}$ Only compesation measure for pH, Conductivity and $\ensuremath{\mathsf{O}_2}$



Photometer Systems, Probes and Accessories...

Relay Fuctions Backlit Display Din Rail 4 2 Set Points Alphanumeric 2 lines 16 characters ✓ 4 2 Set Points Image: Comparison of the second of the se	Panel-m 8 x 96	ounting 96 x 96	Wall-mounting 144 x 144	Assembled on panel
2 Set Points 2 Set Points 2 Set Points 3 Set Points 4 Iphanumeric 2 lines 16 characters	v	・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	· · · · · · · · · · · · · · · · · · ·	on panel
2 Set Points 2 lines 16 characters ✓ 2 Set Points 1 Remote Alarm Graphic 128 x 64 pixels		マ マ マ マ マ	· · · · · · · · · · · · · · · · · · ·	
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2 Set Points Remote Alarm 16 characters		マ マ マ マ	· · · · · · · · · · · · · · · · · · ·	
I Remote Alarm Graphic 128 x 64 pixels		マ マ マ	 ✓ ✓ ✓ ✓ 	
Graphic 128 x 64 pixels		マ マ マ	 ✓ ✓ ✓ 	
Graphic 128 x 64 pixels		マ マ マ	 ✓ ✓ ✓ 	
128 x 64 pixels		v	~	
		~		
			~	
				 ✓
LED				~
Remote Alarm 7 digit				 ✓
				 ✓
Set Points				 ✓
Remote Alarm Graphic				~
Probe Cleaning 240 x 128 pixels				~
Auxilary Control				<i>✓</i>

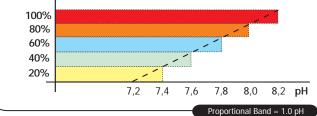
pH/Redox and **conductivity** measuring and control instruments



Standard Functions

- Multilinguage menu
- Password protectionof menu setting
- Relay status indicator
- Manual control of all instrument functions
- Measurement probes quality control
- OFA (Over Feed Alarm): timed excess dosage alarm
- Alarm band can be set with min. and max. values
- Proportional dosing through Set Points:

10 Minutes



Voltage input from remote system

The **kontrol 40** is equipped with a voltage input (ranging from 15 to 30 Vac/Vdc) to suspend the measurement and dosage functions via a remote system.

pH/Redox-meter features

Measurement scales ^(*)	pH: 0÷14 pH Redox: ±1500 mV	Precision 1% FS Precision 1% FS
Temperature Resolution	0÷100°C (32÷212 °F) (Preci	sion 1% FS) with PT100
Current output(*)	0/4÷20 • 20÷4/0 mA (±2%)	galvanically isolated
Set Points (2 independent)	through 10 A 250 V dry contact	t relay (resistance load)
Control voltage	15÷30 Vac/Vdc	
Power supply	100÷240 Vac 50Hz/60Hz	(12÷24 AC/DC on request)

Conductivity-meter features

•		
Measurement scales(*)	1÷50000 μS	Precision 1% FS
with K10 probe	1÷200 µS ± 1% FS	
	10÷2000 µS ± 1% FS	
with K5 probe	20÷4000 µS ± 1% FS	
with K1 probe	100÷20000 µS ±1% FS	
	200÷50000 µS ± 1% FS	
Temperature Resolution	0÷100°C (32÷212 °F) (Preci	i sion 1% FS) with PT100
Current output(*)	0/4÷20 • 20÷4/0 mA (±2%)	galvanically isolated
Set Points (2 independent)	through 10 A 250 V dry contact	t relay (resistance load)
Control voltage		15÷30 Vac/Vdc
Power supply	100÷240 Vac 50Hz/60Hz	(12÷24 AC/DC on request)

Galvanic isolation of output 4...20mA

The ideal solution for connecting to a logger or data acquisition system without any interference.

Selectable measurement scales

Using the programming menu, it is possible to select the available measurement scale to ensure operating versatility with a single instrument.

Easy to read

The **kontrol 40** displays the chemical measurement, the temperature and any alarms via the 2-line, 16-character Display.

Easy to calibrate

This instrument is able to recognize the buffer solutions, performing automatic calibration for **2 points (7 and 4 or 9.22 pH)**, stopping the dosage and indicating the efficiency of the probe in percentage value.

Conductivity calibration is performed using a reference solution.



(*)Selectable via software

pH/Redox, chlorine, conductivity, oxygen and *turbidity* measuring and control instruments

kontrol 500

A line of instruments for measurement and control designed specifically for the industrial and water treatment sector. The available parameters are:

pH/Redox	kontrol PR500
Chlorine	kontrol CL500
Conductivity	kontrol CD500
Oxygen	kontrol OX500
Turbidity	kontrol TB500

Control outputs

Each instrument has 2 current outputs and 4 relays allowing management of up to **six different peripherals**, to create an automatic measurement and control system.

PID control functions

The instruments are provided with P.I.D., Timed and ON/OFF functions, set using built in software, to control remote devices.

PR500

NO

165

Graphic Display

The graphic display with 128x64 pixel resolution gives simultaneous display of the chemical measurement, the temperature measurement and the status of the various control outputs via the asy to read screen for the entire process.

Multilinguage Communication

The devices are equipped with a simple mnemonic interface with the option of selecting the communication language from English, French, German, Italian and Spanish.

Power-assisted calibration with probe quality control

The software functions are designed for 2 point calibration (7 and 4 or 9.22 pH), to provide the operator with enhanced accuracy, always ensuring reliable operation, whilst displaying valuable information about the probe quality.

Serial Communication (RS485)

All the devices are equipped for RS485 serial port communication for remotely monitoring measurements and storing data.

CD500

Panel-mounting version (96x96 mm)

water & industry > **kontrol series** measuring and control instruments

Wall - or pole-mounting version with IP65 degree protection (144x144 mm)

Measurement scales

kontrol PR500

рН	0 ÷ 14 pH
Resolution	0,01 pH
Redox	± 1500 mV
Resolution	1 mV

kontrol CL500

 Chlorine
 0÷2 ppm; 0÷5 ppm; 0÷10 ppm; 0÷20 ppm

 Resolution
 0,01 ppm

kontrol CD500

Conductivity (with K1 probe)

_	$0 \div 20 \ \mu\text{S}; 0 \div 200 \ \mu\text{S}; 0 \div 2000 \ \mu\text{S}; 0 \div 20000 \ \mu\text{S}$
Resolution	0,01 µS; 0,1 µS; 1 µS; 10 µS

kontrol 0X500

Oxygen	0÷20 ppm
Resolution	0,1 ppm

kontrol TB500

 Turbidity
 0,00÷1,00 FTU; 0,0÷10,0 FTU; 0÷100 FTU

 Resolution
 0,01 FTU; 0,1 FTU; 1 FTU

Common specifications

Temperature	-10 ÷ +150 °C	(14 ÷ 302 °F)
Resolution		0,1°C (0,1°F)



Mechanical features

Sizes	144x144x112 mm and 96x96x130 mm
Box material	PP (144x144) and ABS (96x96)
Degree protection	IP65 (144x144) and IP54 (96x96)

Electrical features

Universal power supply	80÷265 Vac (24 Vac on request)
Consumption	10 VA
-	

Control outputs

Double current output	galvanically isolated
Double Relay with double exchange	
for dosing Set Points ^(*)	Dry contact
Relay dedicated to probe cleaning ^(*)	Dry contact
Remote alarm relay ^(*)	Dry contact
Serial interface	RS485 port
(**) (6A 250Vac resistive load)	

Inputs

Voltage 15÷30 Vac/dc (to keep the instrument in "Hold" mode)

Control functions and settings

Controls	1. PID (available at current output no. 2)
	2. Timed

3. ON/OFF

Delay function for relay activation

Manual control of all outputs

Assisted calibration with probe quality evaluation

Set Point value modification with special menu (Quick menu)

Setup protection with passwords

Assembled Panels

Panels for measurement and setting of pH value, Redox potential (ORP) and Chlorine concentration

Compact and easy to use, the Kontrol series panels include all accessories required for immediate installation (buffer solutions for pH and Rx calibration, and DPD colorimetric system for Cl calibration).

Suitable for thermal bath water and sea water with specific software.

- Autocalibration of all measurements (pH; Redox; Chlorine)
- Compact probe holder complete with flow sensor, valve for adjusting the flow rate and sample point
- Alarm signal for low flow
- Designed to IP65
- Two alarm relays (5 A 250 Vac)
- 4÷20 mA outputs for each parameter measured, with option of selecting the interval

- 230 Vac power supply (standard) or 115 Vac (on request)
- Programmable Set points and alarm
- Pump pause function during the calibration phases
- Temperature reading and compensation (automatic with optional PT100)
- Set point adjustment: On/Off, pause/operation, and proportional pulse regulation



kontrol PRC

Panel for measurement and adjustment of **pH value**, **Redox Potential (ORP)** and **Chlorine concentration**

Consisting of:

- PC95 and PR40 instruments
- pH and Redox (ORP) probes
- Probe holder complete with self-cleaning amperometric cell (Pt-Cu)
- · Mechanical filter on water input
- Autocalibration via a solenoid valve for water control

These instruments allows autocalibration directly with the chemical and physical features of the water to be measured, and indicates the quality of the probes

Measurement scales

0÷5 ppm Free Chlorine / 0÷14 pH / ±999 mV Redox



kontrol CL

Panel for measuring and adjustment of Chlorine concentration

Consisting of:

- Probe holder complete with self-cleaning amperometric cell (Pt-Cu)
- · Mechanical filter on water input
- Autocalibration via a solenoid valve for water control

The instrument allows autocalibration directly with the chemical and physical features of the water to be measured and indicates the quality of the probes

Measurement scales 0÷5 ppm Free Chlorine



kontrol PR

Panel for measurement and adjustment of **pH value** and **Redox Potential (ORP)**

Consisting of:

- PR95 instrument
- pH and Redox (ORP) probes
- Probe holder
- · Mechanical filter on water input

The instrument indicates the quality of the probes

Measurement scales 0÷14 pH / ±999 mV Redox



kontrol PC

Panel for measurement and adjustment of \mathbf{pH} value and Chlorine concentration

Consisting of:

- PC95 instrument
- pH probe
- Probe holder complete with self-cleaning amperometric cell (Pt-Cu)
- · Mechanical filter on water input
- Autocalibration via a solenoid valve for water control

The instrument allows autocalibration directly with the chemical and physical features of the water to be measured and indicates the quality of the probes

Measurement scales 0÷14 pH / 0÷5 ppm Free Chlorine

Free and total chlorine multi-parameter control unit with

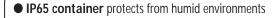
photometer system

Multi-Parameter Control Unit for contemporary determination of Free Chlorine (Photometric System), pH, Redox and Temperature.

The system is equipped with a graphic display subdivided into areas for simultaneous display of all available measurements.

The **removable cover** guarantees the accessibility of the system and also allows:

- Protection of the chemical reagents from ultraviolet rays
- High visibility display



• Multilanguage user-friendly interface. The wide display allows the creation of graphics for each available measurement via an internal Data Logger function.



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The peristaltic pump, which has 4 pressure points, saves on reagents



Continous monitoring of reagents using level probes

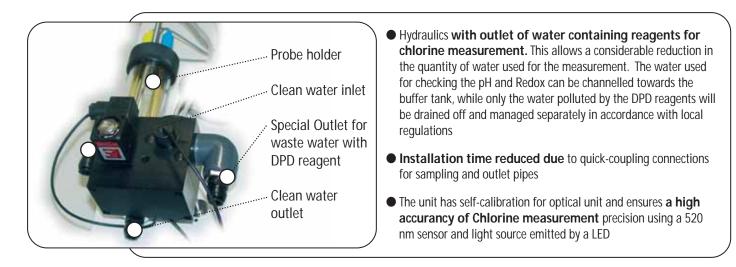


The DPD reagent in powder form (to be diluted before use) is an excellent solution for safe storage

- Mechanics with "flip door" permitting easy access to the electrical connections
- BNC connectors on side of box facilitate quick maintenance of the pH and Redox probes



th photometric method, pH, Redox and Temperature



Technical Features

Free or Total Chlorine	Measurement 0÷ 5 ppm	Resolution 0,01 ppm	Precision 1% FS
рН	Measurement 0÷14 pH	Resolution 0,01 pH	Precision 1% FS
Redox	Measurement ±1500 mV	Resolution 1 mV	Precision 1% FS
Temperature	Measurement 0÷50 °C (32 ÷ 106 °F)	Resolution 0.1°C (.18 °F)	Precision 1% FS
Display	240x128 pixel backlit graphic		
Programming	Via keypad with 4 bubble keys		
Digital Input	Dry contact for disabling dosages		
Analogue Input	0/4÷20 mA for auxiliary measurements		
Power supply	90÷264Vac 50-60Hz 66 Watt		
Internal Data Logger	Flash Memory 16000 records Recording interval 00:00 ÷ 99:99 minu Type circular / refill Tabular / graphic display	utes	
4 Analogue Outputs	Size Chlorine, pH, Redox, Temperature Type 0/4÷20 mA galvanically isolated Lower / upper / inversion limit program Maximum load 500 Ohms	ming	
4 Set Point Relay Outputs	nr. 2 for chlorine measurement + nr. 2 for Max. relay load 3A (resistive) 230Vac	pH measurement	
Alarm Relay Output	Lack of sample water Reagents run out Floodlight burned out Dirty cell Relay max. resistive load 3A at 230Vac		
2 Auxiliary Relay Outputs	Programmable as Set Points for Redox measurement, Timed activation for cell cle Relay max. resistive load 3A at 230Vac		mperature
Serial Port Output (RS485)	RTU MODBUS protocol with programmable	e Baud rate 1200 ÷ 38400	
Available version	Total Chlorine + Temperature	Free Chlorine+ pH + Tei	mperature
	Free Chlorine + Temperature	····	

pH/Redox and conductivity probes

pH/Redox **Probes**

pH and Redox measurements take place through chemical feaction producing into electrical potential which is read by a special sensor called a probe. Probes are active elements with a limited lifespan and must be periodically calibrated with known solutions (buffer solutions).

The probes illustrated below are all of the combined type (Measurement + Reference) and are classified by their chemical and physical features which make them suitable for multiple applications.

The following elements must be considered when choosing a probe: field of measurement, temperature, pressure, chemical substances present during the process and type of mounting within the system.





The **seko** range of conductivity probes is specially designed for use in industrial environments in conjunction with **seko** measurement instruments. The various available models make it possible to cover an extremely wide measurement range. There are versions with temperature sensors and special versions with graphite or platinum probes, PTFE cell bodies and IP67 connectors.

Measurement of conductivity is performed by suspending the two metallic electrodes of the probe in the solution to be measured. The passage of the current between the two electrodes indicates the electrical resistance of the liquid, and therefore its conductivity.

The measurement is influenced by the temperature. In saline solutions, measurement variations of 2% / °C can occur. This variation can even reach 7% / °C. Therefore, conductivity probes without temperature sensors should only be used if the solution being tested is maintained at a temperature between 15°C and 25 °C, restricting the potential for error to 10%.

Note All the models are guaranteed for a maximum pressure of 6 bars.

Model	Range Measur.	Min Conduc.	Max Temp.	Max Press.	Porou septu		lef.	Connection	Mounting onto the process	Material Body
General ap	olications									pН
SPH-1-S1,5	0÷14 pH	50 µS	60 °C	7 bar	1 Standa	ard (GEL	1,5m cable+BNC	Standard Ø 12	Epoxy 12x120
SPH-1-S6	0÷14 pH	50 μS	60 °C	7 bar	1 Stand		GEL	6m cable+BNC	Standard Ø 12	Epoxy 12x120
Dirty water	r - Harsh envi	ronments	5							
SPH-3-WW	2÷14 pH	5 µS	80 °C	6 bar	Open he	ole C	GEL	S7	PG 13,5	Glass 12x120
Lime milk -	Sulphates - F	Proteins -	Ammoni	а						
SPH-4-HP	2÷14 pH	5 µS	90 °C	6 bar	2 Open h	oles	GEL	S7	PG 13,5	Glass 12x120
High tempe	erature and p	ressure -	Chromiu	m platir	ng - Bisu	Iphite				
SPH-4-HT	0÷14 pH	50 µS	130 °C	16 bar ^(*)	3 Ceran	nic G	GEL	S7	PG 13,5	Glass 12x120
Highly acid	ic solutions									
SPH-4-LC	0÷14 pH	< 0,2 µS	0÷40°C	6 bar	3 Ceran	nic G	GEL	S7	PG 13,5	Glass 12x120
	ts - chromium	-plated -	1		1					Redox
SRH-1-PT-1,5		-	60 °C	7 bar	1 Standa		GEL	1,5m cable+BNC	Standard Ø 12	Epoxy 12x120
SRH-1-PT-6	±2000 mV	-	60 °C	7 bar	1 Standa	ard C	GEL	6m cable+BNC	Standard Ø 12	Epoxy 12x120
	ints - cyanide	s and har			S					
SRH-3-PT	±1000 mV	-	80 °C	6 bar	Open he		GEL	S7	PG 13,5	Glass 12x120
SRH-4-HT-PT	±1000 mV	-	130 °C	16 bar ^(*)	3 Ceran	nic C	GEL	S7	PG 13,5	Glass 12x120
(*) The maximum p	pressure of 16 bars is	guaranteed at	5 °C. As the	temperature	increases, th	ne pressure	decre	eases linearly and, at 100	°C, the maximum pre	ssure is 6 bars
Model	Range Measurement		С -К		lax mp.	Materia Body	al	Mounting onto the process	Conn	ection
Without ter	mperature se	nsor							Conc	luctivity
С-К10	0,01÷500 µS		n-1 K=10 ci			PP-AISI 3		1/2″ G.M.		cable Ø 5 mm
C-K5	0,1÷1000 µS		m-1 K=5 cr			P-AISI 3		1/2″ G.M.		cable Ø 5 mm
C-K1	1÷5000 µS 1 µS÷20 mS		n-1 K=1 cm n-1 K=1 cm			P- AISI 3 ass - Plati		1/2" G.M.		cable Ø 5 mm
C-K1-PT					D°C Gla	155 - Pidli	mum	Ø12 mm L=120 mm		olar cable
	erature senso		m 1 1/ 10 m	m 100			017	2/4// C M	4 polo M /	oppostor(**)
CT-K10 CT-K5	0,01÷500 μS 0,5÷2000 μS		n-1 K=10 c m-1 K=5 cr			P-AISI 3 P-AISI 3		3/4" G.M. 3/4" G.M.		connector ^(**)
CT-K5	5.÷5000 μS		n-1 K=1 cm			P-AISI 3		3/4" G.M.		connector ^(**)
CT-K1-G	5 μS.÷20 mS		n-1 K=1 cm			VC Grap		PG 13,5		ble Ø 5 mm
	erature senso						-			
CT-K1-SS ^(*)	0,01 µS÷20 mS		n-1 K=1 cm		J°C	PTFE		1″GAS	5 m or 10 m	bipolar cable
CT-K1-GR ^(*)	0,01 µS÷20 mS		n-1 K=1 cm		°C	PVC		1″GAS		bipolar cable
	-10. 00. 20 110	0 1 011			-					

^(*) The maximum pressure of 6 bars is guaranteed at 25 °C. As the temperature increases, the pressure decreases linearly and at 50° or 100 °C, the maximum pressure is 1 bar ^(**) To be used in conjunction with CC series cables

Oxygen and Turbidity Probes

The **kontrol OX500** instrument allows measurement of dissolved oxygen concentration (expressed in mg/l) in liquids, using a polarographic type, non-restorable combined measurement probe combined with a temperature sensor.

The instrument measures the partial pressure of oxygen in water by measuring the current generated by the polarographic probe.

The instrument automatically compensates, at -10÷150°C, for the permeability of the membrane using the temperature sensor inside the oxygen probe, taking into account the salinity of the liquid being tested. The automatic or manual calibration function of the dissolved oxygen probe permits high precision over time of the measurements taken.

Oxysens® Probe

Probe body material	Silver - Platinum
Electrolyte	Alkaline solution
Membrane	OPTIFLOW™
Temperature sensor	2.2 Kohm NTC
Sensitivity	40÷80 nA at 25°C
Stabilisation time	average 15 minutes, maximum 1 hour
Operating temperature	0÷60 °C
Temperature range	-10 ÷ 60 °C
	with water contained in a probe holder
Pressure 0÷4 Bars inserte	d into a pipe, 0.5 Bars totally submerged

Probe body diameter	12 mm
Mounting	pitch PG 13.5 mm
Flow	minimum 0.03 m/sec
Flow dependence	<5% at 25°C
Consumption	20 ngr/hour in air at 25 °C
Residual current	<0.5% in air
Variation of zero	<0.5% of current every two months
	at 25°C in stable water
Variation of sensitivity	>10% every 2 months in stable water
Cable	5 m

The measurement method used to determine the turbidity is measurement of the radiation diffused within the "Turby Sensor" Turbidimetric probe. The turbidity measured using this method is expressed in formazine nephelometric units (FNU or NTU). With the **Kontrol TB500** instrument it is possible to determine turbidity ranging from 0 to 100 FTU in three settable scales.

Using the available accessories it is possible to achieve good installation versatility with the reduction flanges. Using the Dehumidifier, it is possible to maintain the measurement optics functioning perfectly in humid environments.

The measurement unit can be installed in line with the outflow pipe. It consists of mechanical components that are easily accessible for inspection purposes. The unit also features automatic washing equipment. Maximum pressure for the system is 1 bar.

Turby Sensor Probe

Material	AISI 304 steel
Polished external finish and Black Teflon intern	nally
Hydraulic Connection	IN/OUT 2 1/2" GAS M
Maximum operating pressure	1 Bar
Floodlight Unit and Incandescent Bulb	1.5W 6V
Photoresistance measurement sensor unit	
Equipped for 1/4" Gas connection for cleaning	with liquids and/or air
Attachments for 4x6 mm pipe for Anti-condens	ate Air input



Potentiostatic Chlorine Probes

CL-Sensor Probe

This range consists of potentiostatic amperometric probes to measure free or total chlorine for applications such as: water treatment, swimming pools, industrial applications and more.

The wide range of probes allows a better choice depending on the parameter to be tested, thus obtaining a more accurate measurement.

CL-Sensor probe

- The two-wire interface allows quick and easy installation
- Calibration of the probe is guided by the kontrol CL500 instrument



	F-CL-I	F-CL-2	F-CL-3	T-CL	D-CL		
Measurement	0÷10 ppm	0÷10 ppm	0÷10 ppm	0÷10 ppm	0÷10 ppm		
Resolution	±0.01 ppm	±0.01 ppm	±0.01 ppm	±0.01 ppm	±0.01 ppm		
pH Scale	4÷8 pH	4÷12 pH	4÷11 pH	0÷14 pH	0÷14 pH		
Flow ^(*)	>=30 lt/h	>=30 lt/h	>=30 lt/h	>=30 lt/h	>=30 lt/h		
Temperature	45°C	45°C	45°C	45°C	45°C		
Pressure	1 Bar	0,5 Bar	0,5 Bar	0,5 Bar	1 Bar		
Power supply	12÷30 Vdc	12÷30 Vdc	12÷30 Vdc	12÷30 Vdc	12÷30 Vdc		
Output signal	4÷20 mA ^(**)	4÷20 mA ^(**)	4÷20 mA ^(**)	4÷20 mA ^(**)	4÷20 mA ^(**)		
Diameter	25 mm	25 mm	25 mm	25 mm	25 mm		
Length	225 mm	225 mm	225 mm	225 mm	225 mm		
Body material	PVC	PVC	PVC	PVC	PVC		
Membrane	M20	M48	M48G	M48	M20		
			.				
Electrolyte	ECL1	ECC1	ECS1/Gel	ECP1/Gel	ECD4		
Cable	Max. 15 meters	Max. 15 meters	Max. 15 meters	Max. 15 meters	Max. 15 meters		
Treatment type	Free chlorine Inorganic	Organic free chlorine (Chloroisocyanurate)	Free chlorine Inorganic	Total Chlorine (Inorganic or Organic)	Chlorine Dioxide		
(*) Stabilization time average 15 minutes, maximum 1 hour (**) Output of current signal proportional to the measurement							

pH, Redox and Conductivity probe holders

Sensors for measuring pH, Redox and Conductivity must be installed in the system using special probe holders that ensure the correct mechanical protection and degree of impermeability.

The pH and Redox measurement probes can be submerged in tanks, inserted in pipes or placed in sample draw down containers (Catch Pots).

The immersion models with adjustable flange can be used in conjunction with a counter-flange which allows quick and easy installation and removal. The P-IG range with a floating platform adapts to the varying liquid level of deep water tanks. The polypropylene versions PIR-2-PP-xxx can house two sensors, e.g. pH and Redox.

It is not recommended to use PH and/or Redox sensor in the same probe holder as a conductivity cell.

Immersion probe holders

Model	Immersion	No. of probes	Max Temp.	Material
PI-PVC-400	400 mm	1	40 °C	PVC
PI-PVC-800	800 mm	1	40 °C	PVC
PI-PVC-1000	1000 mm	1	40 °C	PVC
PI-PVC-1500	1500 mm	1	40 °C	PVC
PIR-PVC-200	100÷250 mm	1	40 °C	PVC
PIR-PVC-400	100÷450 mm	1	40 °C	PVC
PIR-PVC-800	100÷850 mm	1	40 °C	PVC
PIR-PVC-1000	100÷1050 mm	1	40 °C	PVC
PIR-PVC-1500	100÷1550 mm	1	40 °C	PVC
PIR-2-PP-400	100÷450 mm	2	80 °C	PP
PIR-2-PP-800	100÷850 mm	2	80 °C	PP
PIR-2-PP-1000	100÷1050 mm	2	80 °C	PP
PIR-2-PP-1500	100÷1550 mm	2	2° 08	PP
PI-G	floating	1	40 °C	PVC
B/PI-G	2 m anchorage arm		40 °C	PVC

Probe holders with 3/4" probe attachment without protection

These can house conductivity probes with threaded 3/4" G. attachment with output cable or IP67 connector. Model Immersion No. of probes Max Temp. Material PCIR-PP-400 100÷450 mm 80 °C PP 1 PCIR-PP-800 1 80 °C PP 100÷850 mm PCIR-PP-1000 100÷1050 mm 1 80 °C PP **PCIR-PP-1500** 100÷1550 mm 1 80 °C PP

Counter-flange for quick removal

Model	Int. diameter	Ext. diameter	Material	Attachment
FER	65 mm	140 mm	PVC	4 holes Ø 6 mm



PCIR-PP

Immersion p	roho -	
holders with	spray	cleaning

These special probe holders can be connected with a cleaning liquid injection unit. Regular cleaning of the probe ensures linearity and stability of the measurement over time, preventing the need for time-consuming manual intervention.

Model	Immersion	No. of probes	Max Temp.	Bar	1/h min-max
PIA-PVC-400	400 mm	1	40 °C	26	100600
PIA-PVC-800	800 mm	1	40 °C	26	100600

Tap probe holders

Tap probe holders are used for in-line measurements where part of the sample is re-directed from the main pipe to the probe holder. The water can be drawn off into the sampling circuit at a pressure of 6 bars.

		No. of probes	Max Temp.	Max Press.
PSS 7-Single	transparent beaker	1	40 °C	6 bar
PSS 7	transparent beaker	3	40 °C	6 bar
PSS 7-A	Anti-acid PVC beaker	3	40 °C	6 bar

Outflow probe holders for conductivity probes

For CT-K1-SS and CT-K1-GR probes (500 series)

Made of black PVC with 1" mechanical connection and 3/4" GAS IN/OUT hydraulics. 1. With cleaning (PSS-COND-W) • 2. Standard (PSS-COND)

3. Probe cable protection (included)

For CK 1/5/10, CT-K1, CT-K5 and CT-K10 probes

Made of black PVC with 3/4" mechanical connection and 1" GAS IN/OUT hydraulics. 4. Outflow section (PSS-COND-T)



Pressurized probe holders

Pressurised probe holders are used to immerse the probe directly into the pipe where the sample to be measured passes. The probe must always be positioned vertically or slanting in the direction of the flow at a maximum of 45°. The probe holder connection line must be fitted between two isolatation valves (input and output) in order to permit the prevention of the flow during maintenance of the probes.

PSS 3 PVC 60 °C 7 bar 1/2" G.M.	DO 10 F 0 10
	PG 13,5 or Ø 12 mm
SPP PP + PVC 60 °C 16 bar 1" G.F.	PG 13,5
SPP-FIL PP 80 °C 16 bar 3/4" or 1" 1/4 G.M.	PG 13,5

pology > future

SPP

PSS 3

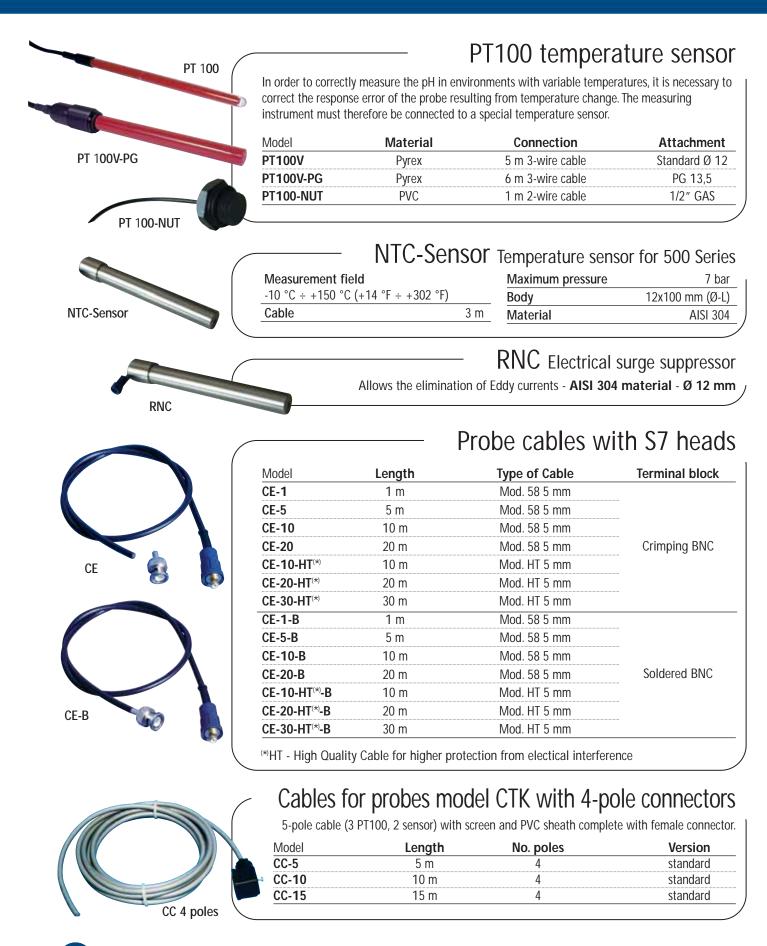
PIA-PVC

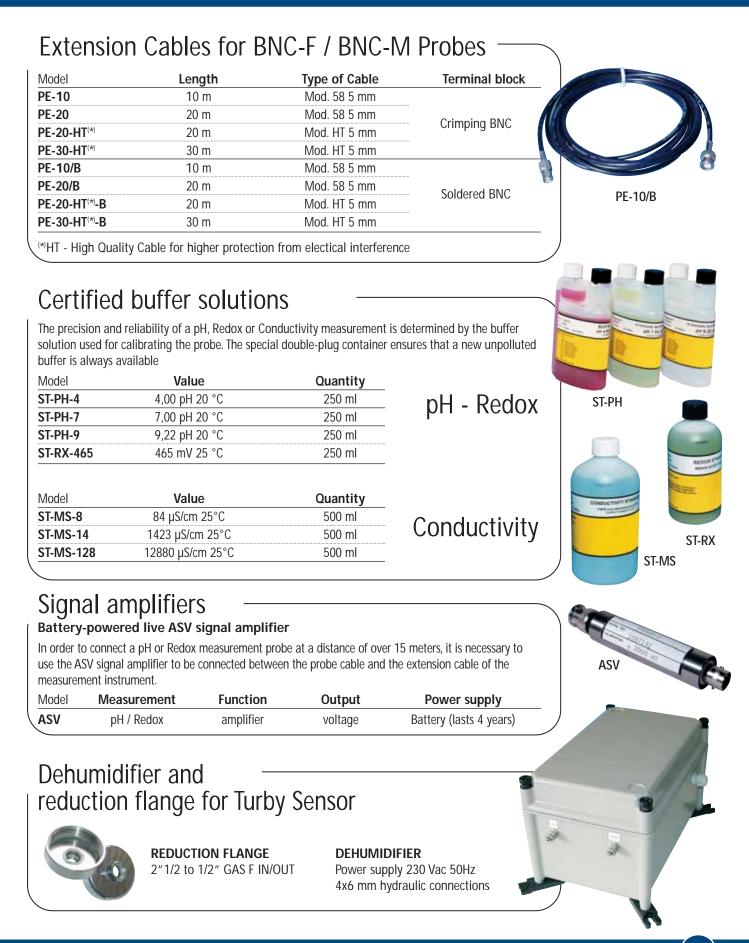
PSS 7 Single

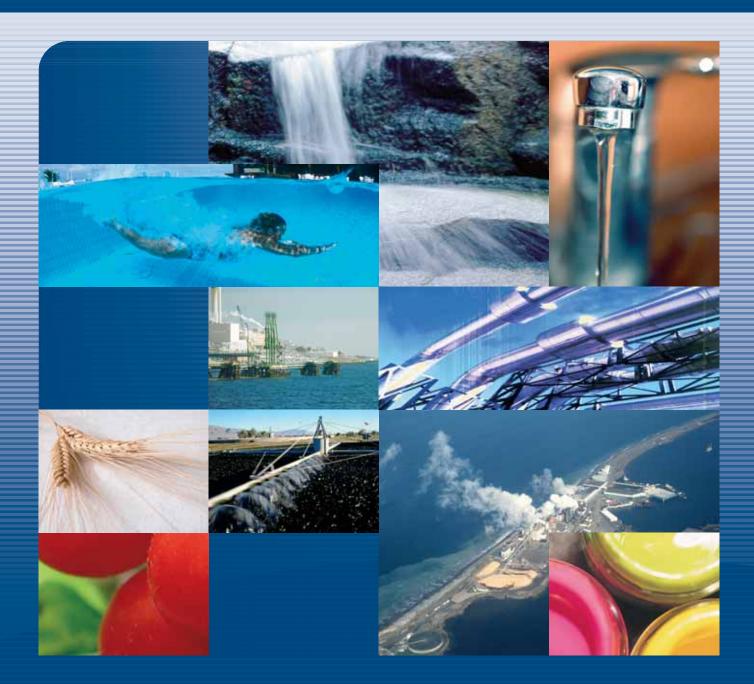
PSS 7A

PSS 7

Cables, buffer solutions and probe accessories









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