

42 Series
Process analysers

Serie 42

Chemitec introduces the 42 Series family of industrial control instruments designed for measuring:

- ▶ pH/ORP
- ▶ Dissolved Oxygen
- ▶ Conductivity
- ▶ Turbidity
- ▶ Suspended solids
- ▶ Chlorine
- ▶ Chlorine Dioxide
- ▶ Ozone



Wall mounting version with IP66 protection
(144 x 144 x 120 mm)



Panel mounting version
(144 x 144 x 100 mm)



Panel mounting version
(96 x 96 x 133 mm)

Chemitec devices for process analysis

Visualization

- ▶ Simultaneous values of the measure (numeric + bargraph) and Temperature.
- ▶ Analogue outputs values in scrolling.
- ▶ Graphic icons showing: digital outputs' state, data storage, washing cycle, alarms.
- ▶ Ability to see the only measure in large format

Data storage

- ▶ Internal Flash 4Mbit Memory (near to 16000 records).
- ▶ Records interval: 1 ÷ 99 min
- ▶ Type: Circular (F.I.F.O.) or Filling
- ▶ Possibility of visualization of the stored data in tabular and graphic form, with indication of maximum, minimum and average values of the selected period.
- ▶ Zoom function

PID Regulation

- ▶ Functions: P – PI – PID. Activated on the analogue or digital outputs.
- ▶ Proportional range: 0 ÷ 500%
- ▶ Time of integral: 0:00 ÷ 5:00 min
- ▶ Time of derivative: 0:00 ÷ 5:00 min

2 analogue outputs

- ▶ Output 1 programmable for measure
- ▶ Output 2 programmable for Measure / Temperature / PID regulation
- ▶ Output limits are freely programmable between the range of measures.

4 digital outputs

- ▶ ON –OFF Set Point: set of the operating range (hysteresis / direction) and of start/stop time 000 ÷ 999 Seconds
- ▶ PID Regulation: Pulse frequency or PWM (2 set point)

Alarm

- ▶ Reporting: Instrumental anomalies, minimum, maximum, set point's delay, permanence time (live check)
- ▶ Delay time: 00:00 ÷ 59:99mm:ss at minimum steps of 1.5sec
- ▶ Permanence time: 00:00 ÷ 99:99 hh:mm
- ▶ Set Point disabling (in case of alarm): Enable / Disable
- ▶ Relays functioning: Closed / Open

Electrode washing

- ▶ Programming of the time leg
- ▶ Frequency: 00:00 ÷ 24:00 hh:mm minimum time leg: programmable
- ▶ During the washing phase, all digital and analogue outputs are frozen

Digital input

- ▶ To disable dosages

RS485 Serial output

- ▶ For set-up and real-time data acquisition from remote or for stored data download (using a dedicate-SW)
- ▶ USB to download (software required)
- ▶ MODBUS RTU communication protocol

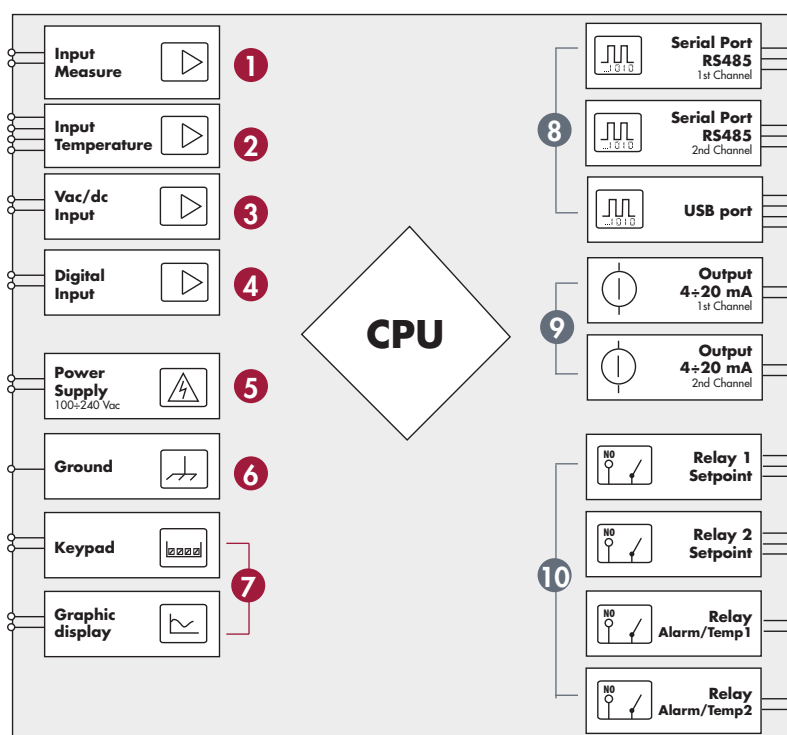
Manual controls

Possibility to simulate all the analogue and digital outputs using the keyboard

Temperature compensation

- ▶ Via Temperature sensor PT 100 with 3 or 4 wires, or PT 1000

Electrical connections









Input

- 1 Chemical Measurement
- 2 Temperature measurement
- 3 Input voltage 15 – 30 Vac-Vdc (if present, fix the instrument on HOLD)
- 4 Digital Input
- 5 Universal input 100 – 240 Vac
- 6 Earth Potential Input
- 7 Keypad and Display

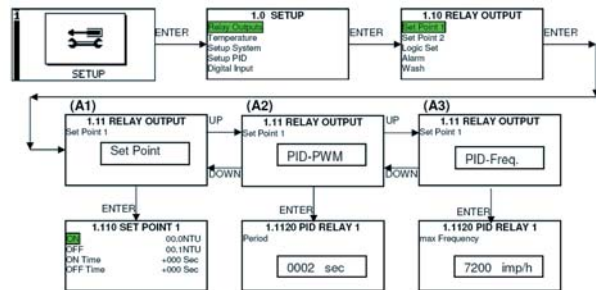
Output

- 8 RS485 Serial and USB Ports
- 9 Current outputs
- 10 Dry contact relay
 - SetPoint 1
 - SetPoint 2
 - Alarm/Temp1
 - Probe washing/Temp2

Simple and user friendly set up.

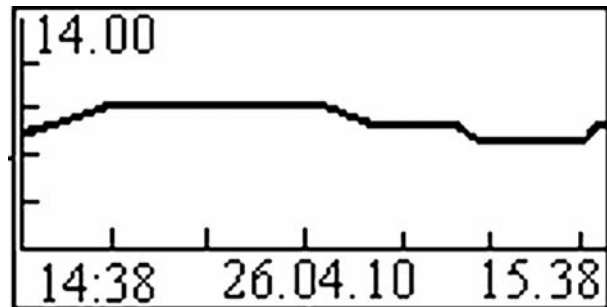
VISUALIZATIONS ON THE GRAPHIC DISPLAY	DESCRIPTION
 SETUP	SETTINGS MENU All basic parameters for operation logics are set
 CALIBRATIONS	CALIBRATIONS MENU Calibration Procedure of the electrode
 OUTPUTS	DIGITAL AND ANALOGUE OUTPUTS MENU Setting of digital and analogical outputs
 ARCHIVE	ARCHIVE MENU Setting of the data archive and visualization mode
 GRAPHIC MEASUR.	GRAPHICAL MEASUREMENT MENU Visualization of archives in a graphical form
 MANUAL CONTROL	MANUAL CONTROL MENU Manual control and activation of Entries and Outputs

▶ Main menu graphic icons



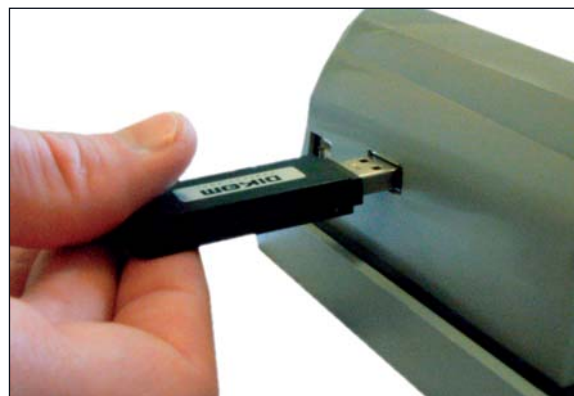
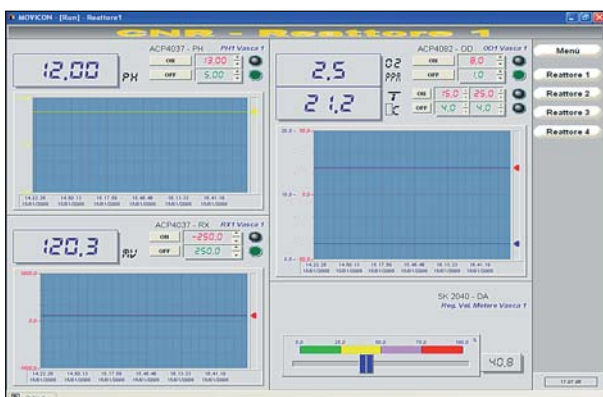
▶ Interactive and clear interface

Run time display of the measuring stored data in graphic frame

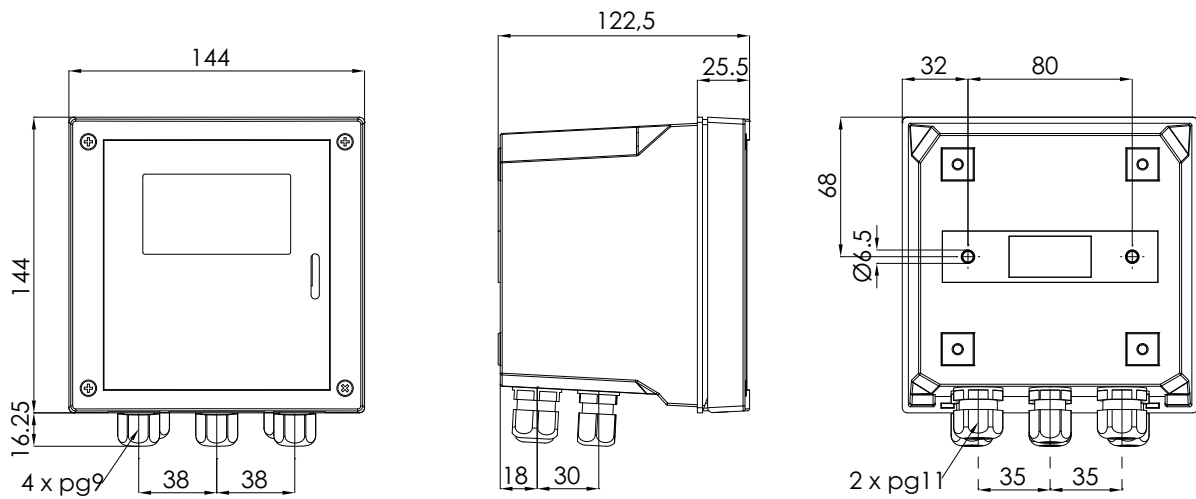


MODBUS RTU serial interface for:

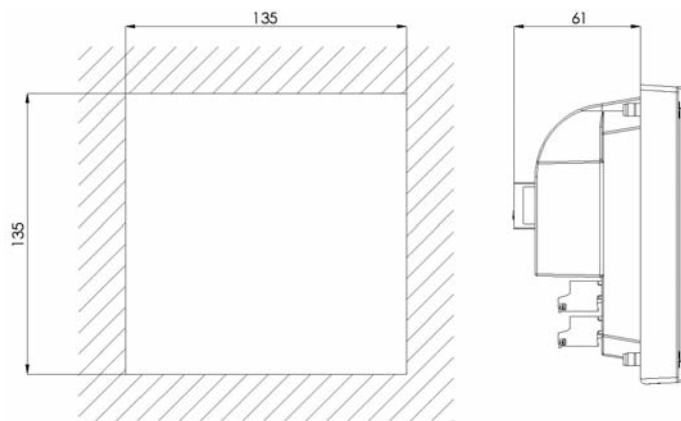
- ▶ "Real Time" data communication
- ▶ Stored data download on laptop via SW or directly on removable memory Usb Pen Drive (Optional)



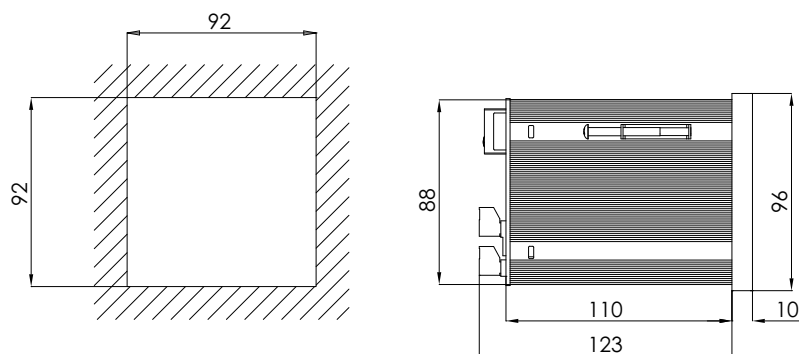
Wall-mounting version IP66



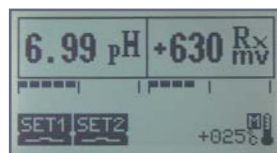
Panel-mounting version 144 x 144



Panel-mounting version 96 x 96



4238 pH/REDOX



Range

pH
0 ÷ 14 pH
Resolution 0,01 pH

REDOX
±1500 mV
Resolution 1 mV

Available versions with double parameter

- 4238-38** [pH/ORP - pH/ORP]
- 4238-22** [pH/ORP - Conductivity]
- 4238-23** [pH/ORP - Inductive]
- 4238-83** [pH/ORP - Dissolved Oxygen]

pH and ORP Probes

The electrodes are all of the combined type (Measurement/Reference), without maintenance, and are classified by their chemical-physical characteristics, which makes them adaptable to multiple applications. The elements to be considered when choosing an electrode are: measurement range, temperature, pressure, chemical substances present in the process, type of assembly of the electrode within the system.



	Probe Type	pH /ORP Range	Minimum Conductivity	Maximum Temperature	Maximum Pressure	Diaphragm Type	Reference	Connections	Mounting	Body
pH	S401/VG	2 ÷ 14 pH	5 µS	80°C	6 bar	Single Pore	GEL	S7	PG 13,5	Glass 12x120
	S401/LC	0 ÷ 14 pH	< 0,2 µS	40°C	16 bar	Single Pore	GEL	S7	PG 13,5	Glass 12x120
	S402/PS	0 ÷ 14 pH	5 µS	80°C	0,2 bar	Annular	KPCL/KN03	cable 5 m	standard Ø12	Glass 12x230
	S408/MEC	0 ÷ 14 pH	50 µS	130°C	16 bar	Single Pore	GEL	S7	PG 13,5	Glass 12x120
	S408/POL	2 ÷ 14 pH	5 µS	90°C	6 bar	Single Pore	GEL	S7	PG 13,5	Glass 12x120
REDOX	S403/PS	±1000 mV	50 µS	60°C	0,2 bar	Annular	KPCL/KN03	cable 5 m	standard Ø12	Glass 12x230
	S406/VG	±1000 mV	50 µS	80°C	6 bar	Single Pore	GEL	S7	PG 13,5	Glass 12x120
	S406/POL	±1000 mV	50 µS	130°C	16 bar	Single Pore	GEL	S7	PG 13,5	Glass 12x120

pH and ORP Digital probes RS 485

- ▶ Measure of pH or ORP with differential method
- ▶ Independent measure and reference electrode
- ▶ Integrated temperature with PT100
- ▶ RS485 output, galvanically insulated



S401DIFF pH digital probe

Measurement	pH	from 0 to 14
	Temperature	from 0 to 50°C
Body	Materials	PVC / Glass
	Dimensions	Length 230 mm - Ø42 mm
	Protection Degree	IP68
	Power Supply	12Vdc
	Connections	1" Gas
	Length Cable (enclosed)	10 mt

S406DIFF Redox digital probe

Measurement	ORP	from -1500 to +1500 mV
	Temperature	from 0 to 50°C
Body	Materials	PVC / Glass
	Dimensions	Length 230 mm - Ø42 mm
	Protection Degree	IP68
	Power Supply	12Vdc
	Connections	1" Gas
	Length Cable (enclosed)	10 mt

4222 Conductivity



Range

Conductivity

0÷20 µS; 0÷200 µS; 0÷2.000 µS; 0÷20.000 µS;
0÷200.000 µS

Resolution 0,01 µS; 0,1 µS; 1 µS; 10 µS



Available versions with double parameter

4238-22 [pH/ORP - Conductivity]

4293-22 [Chlorine - Conductivity]

S411-S428 Conductivity Probes

Our range of conductivity probes was specifically designed for industrial applications with our measuring instruments. The various available models allow to cover a very wide range of measurements. Probe versions available with temperature sensor, particular versions with graphite or platinum electrodes, PTFE cell bodies with IP67 connectors. The conductivity measurement is carried out by immersing two metal electrodes into the solution to be measured. The current passing between the two electrodes allows the electrical resistance of the liquid, and therefore its conductivity. NB. All models are guaranteed for a maximum pressure of 6 Bar.



Model	Range	Constant	Max. Temp.	Max. Press.	Body Material	Electrode Material	Mounting	Connections
S411S	0÷2.000 µS	K=1	50°C	1 bar	PVC	AISI 316	1" GAS	1" connection, no cable
S411	0÷20.000 µS	K=1	50°C	2 bar	PVC	Graphite	1" GAS	Cable joint from 5m to 10m
S411/TEF	0÷10.000 µS	K=1	100°C	2 bar	PTFE	AISI 316	1" GAS	Cable joint of 5m
S411/C ^(*)	0÷20.000 µS	K=1	50°C	2 bar	PVC	Graphite	1" GAS	Cable joint of 5m
S411/TEF/C ^(*)	0÷10.000 µS	K=1	100°C	2 bar	PTFE	AISI 316	1" GAS	Cable joint of 5m
S411/4E ^(*) 4 cylindrical electrodes	0÷1.000 mS	K=0,55	120°C	4 bar	Glass	Graphite	13.5 PG	Full integrated 5-meter cable
S428 K0.1 High range	2÷100 mS	K=0.1	120°C	0,2 bar	Glass	Platinum	-	Four-pole screw connector
S411/U K0.1 ^(*) High range	10÷200 mS	K=0.1	120 °C	2 bar	PES	Graphite	½" NPT	Four-pole screw connector
S411/U K1 ^(*) Middle range	0÷50.000 µS	K=1	120 °C	2 bar	PES	Graphite	½" NPT	Four-pole screw connector
S411/U K10 ^(*) Low range	0.05÷200 µS	K=10	120 °C	2 bar	PES	Graphite	½" NPT	Four-pole screw connector
S411/P K100 ^(*) Very Low range	0.04÷20 µS	K=100	130 °C	16 bar	AISI 316	AISI 316	½" NPT	Four-pole screw connector
S411/P K10 ^(*) Low range	0÷1000 µS	K=10	130 °C	16 bar	AISI 316	Graphite	½" NPT	Four-pole screw connector

^(*) Temperature Compensation with PT 100

4223 Inductive



Range

Inductive

0÷1.000 µS; 0÷10.000 µS; 0÷100.000 µS;
0÷1 Simens (0÷999,999mS)

Resolution 1 µS; 10 µS; 100 µS; 1.000 µS



Available versions with double parameter

4238-23 [pH/ORP - Inductive]

4293-23 [Chlorine - Inductive]

S410/IND Electrodeless Conductivity Sensors

- ▶ Low Cost
- ▶ Low Maintenance
- ▶ Online, Dip and Tank Mounting Options
- ▶ Ideal for Cooling Tower Bleed, Rinse Water & Solution Concentration Applications



The S410/IND Series of Electrodeless conductivity sensors have been developed and engineered to produce a very low cost sensor, without sacrificing performance or quality. This has been achieved by injection moulding the sensor in glass loaded polypropylene. The sensor provides all of the benefits that the method of Electrodeless conductivity measurement provides. It is extremely tolerant of coating on the sensor, probably the greatest problem with conventional conductivity measurement. The S410/IND incorporates temperature compensation and can be mounted online, in a tank wall or large bore pipe or in an open tank using a range of adapters.

Features					
Sensor Only	Operating temperature	-5 to 60°C (not freezing)	Online Assembly	Material	PVC with Viton seal
	Wetted material	Glass filled polypropylene		Operating temperature	-5 to 60°C (not freezing)
	Temperature compen.	2 wire Pt1000		Dip length	600 or 1200 mm
	Cable	Standard 5 metres		Mounting	Standard bracket or flange option
	Connection	0.5" BSP male		Operating pressure	Vacuum to 6.5 bar (100 psi)
	Protection	IP68			

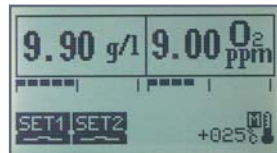
4283 Dissolved Oxygen



Range

Dissolved Oxygen

0 ÷ 20,0 ppm or mg/l - 0 ÷ 200% SAT
Resolution 0,1 ppm or mg/l - 1% SAT



Available versions with double parameter

4238-83 [pH/ORP - Dissolved Oxygen]

4262-83 [Turbidity - Dissolved Oxygen]

4263-83 [Suspended Solids - Dissolved Oxygen]

S423/Oxysens

Measurement principle

The oxygen content in liquids is best measured with cells using Clark's principle. These cells generate an electrical current proportional to the oxygen partial pressure which can be evaluated with a suitable measurement converter. In order to prevent interference effects, the Clark's cell is covered with a gas-permeable membrane. The PTFE membranes typically used, however, are mechanically very fragile, with the result that they must be frequently changed to allow reliable measurement. It is difficult to handle such fragile membranes. As a solution, S423 use the OPTIFLOW membrane. This membrane is very mechanically stable and is manufactured as a laminate around a steel mesh. OPTIFLOW membranes are stable under harsh ambient conditions as well as high pressures. This ingenious design allows fast response times to be combined with unusually low flow dependence. In addition to the PG 13.5 versions with their various lengths, they are now also available as 25 mm versions. The S423/OXYSENS sensors have been developed as 100% maintenance-free, low cost sensors for water management and fish farming.

Maintenance free

No membrane or electrolyte substitution is requested. Replace the sensor if it can no longer be calibrated.



Features			
Electrode Material	combination Silver-Platinum	Body Material	Stainless Steel 1.4435, PEEK, Silicone, NBR
Electrolyte	Alkaline solution	Regeneration	not requested
Membrane	OPTIFLOW™	Response Time $t_{98\%}$	max. 60 s a 25 °C, from air to Nitrogen
Temperature Sensor	NTC 22 kOhm	Temperature Response	ca. 3.1%/K
BIAS Current	-670 +/- 50 mV	Liquid velocity measurement	min. 0.03 m/s
Sensibility	40 ... 80 nA to 25 °C in air	Influence of flow	< 5% a 25°C
Stabilisation Time	typical 15 min., max. 1 h	Oxigene Consumption	ca. 20 ng/h in air at 25°C
Operating Temperature	0 ... 60 °C	Residual Current	< 0.5% current in air
Storage Temperature	-10 ... 60 °C, with water inside electrode cup	Zero Drift	< 0.5% of current in air every 2 months at 25°C or in water at stable conditions
Pressure	0 ... 4 bar inserted; max. 0.5 bar total immersion	Sensitivity drift	< 10% every 2 months at 25°C or in water at stable conditions
External Diameter	12 mm		
Connections	PG 13.5 – threaded		

S423/N/OPT Dissolved Oxygen and Temperature Sensor Optical Technology

- ▶ Optical technology No membrane no electrolyte
- ▶ No drift : no calibration
- ▶ Digital output : Modbus RS-485
- ▶ Stainless steel body : rugged

Application field

- Urban wastewater treatment (network control, entrance, aeration pool for the nitrification / denitrification process)
- Industrial effluent treatment
- Surface water monitoring
- Fish farming
- Drinking water

Optical Technology

The S423/N/OPT sensor with an integrated temperature sensor is based on optical measure: a diode emitting blue light is directed to an oxygen light-sensitive layer. The sensitive material reacts emitting a red light (luminescence) which emission depends on oxygen concentration. This innovative method assures reliable, precise and driftless measures, calibration is no longer necessary. Without consumable, calibration and maintenance, the S423/N/OPT sensor leads to a rapid return on investment. Only the DOdisk is to be changed once every two years. Oxygen-free consumption, the S423/N/OPT sensor is adapted to any fields, including those with very low water circulation.

Digital Technology

Disruption-resistant : Integrated preamplification and digital treatment of signals. The optical sensor saves its calibration data for better measures management. All data concerning calibration, history, users and measures are directly treated within the S423/N/OPT sensor and transmitted via RS-485.

Physical characteristics

Compact, robust and light, the stainless steel sensor allows a handheld or fixed unit application.



Features	
Measuring Principle	Optical by Luminescence
Measuring Range	0,00...20,00ppm / 0-200 % Sat 0...50°C
Resolution	0,01 ppm
Precision	+/-0,1ppm / +/-1 %
Temperature Compensation	by NTC
Response Time	90% of real value in less than 60 seconds
Stirring speed of the liquid	Not requested
Digital Interface	RS-485 Modbus
Maximum Refreshing Time	< 1 second
Membrane	No membrane
Electrode	No electrode
Electrolyte	No electrolyte
Dimensions	Diameter: 25 mm Length: 146 mm
Weight	450g (sensor + 5 meters cable)
Material in contact with liquid	Stainless Steel INOX 316L
Maximum Operating Pressure	5 bar
Protection Degree	IP68
Storage Temperature	-10..... + 60°C

4293 Chlorine and other oxidants



Range

0÷2 ppm; 0÷5 ppm; 0÷10 ppm; 0÷20 ppm
Resolution 0,01 ppm



Available versions with double parameter

- 4238-93** [pH/ORP - Chlorine]
- 4262-93** [Turbidity - Chlorine]
- 4293-22** [Chlorine - Conductivity]
- 4293-23** [Chlorine - Inductive]

S494 Amperometric membrane sensor

Amperometric probe with 2 or 3 electrodes membrane type. Inbuilt Temperature sensor for signal compensation. Suitable for selective Chlorine and other oxidants in drinking water, wastewater, pool water, and process.

Flow cell Installation at constant flow (S305PX)



Model [Measurement]	Range [ppm]	pH Scale [pH]	Resolut. [ppm]	Precis. [% v.l.]	Temp. [°C]	Press. [bar]	Flow [l/h]	Supply [Vdc]	Dimensions [mm]	Mater.
S494/2/CL₂ [Free Chlorine]	0 ÷ 2.0	4 ÷ 7.2	0.01	2	45	1	>=30	12÷30	Ø25 x 225	PVC
S494/5/CL₂ [Free Chlorine]	0 ÷ 5.0	4 ÷ 7.2	0.01	2	45	1	>=30	12÷30	Ø25 x 225	PVC
S494/10/CL₂ [Free Chlorine]	0 ÷ 10.0	1 ÷ 14	0.01	2	45	1	>=30	12÷30	Ø25 x 225	PVC
S494/2/CLO₂ [Chlorine dioxide]	0 ÷ 2.0	1 ÷ 14	0.01	2	45	1	>=30	12÷30	Ø25 x 225	PVC
S494/10/CLO₂ [Chlorine dioxide]	0 ÷ 10.0	1 ÷ 14	0.01	2	45	1	>=30	12÷30	Ø25 x 225	PVC
S494/2/O₃ [Ozone]	0 ÷ 2.0	1 ÷ 14	0.01	2	45	1	>=30	12÷30	Ø25 x 225	PVC
S494/5/O₃ [Ozone]	0 ÷ 5.0	1 ÷ 14	0.01	2	45	1	>=30	12÷30	Ø25 x 225	PVC
S494/2/CLT [Total chlorine]	0 ÷ 2.0	4 ÷ 12	0.01	2	45	1	>=30	12÷30	Ø25 x 225	PVC
S494/2/CL Org [Free Chlorine organic/inorganic]	0 ÷ 2.0	4 ÷ 12	0.01	2	45	1	>=30	12÷30	Ø25 x 225	PVC
S494/2/CL [Chlorite]	0 ÷ 2.0	6.5 ÷ 9.5	0.01	2	45	1	>=30	12÷30	Ø25 x 225	PVC

4262/4264 Turbidity



Range

Turbidity

0,00÷1,00 NTU ; 0,0÷10,0 NTU ; 0÷100 NTU
Resolution 0,01 NTU; 0,1 NTU; 1 NTU

Available versions with double parameter

4262-83 [Turbidity - Dissolved Oxygen]

4262-93 [Turbidity - Chlorine]

S462 cells turbidimetric

S462 Outflow turbidity measurement cells. The principle of measurement is the deviation of light produced by suspended particles in the liquid. Thanks to the dual sensor it is possible to make measurements of turbidity at low and very low concentrations with high accuracy and repeatability. Avoiding contact with the measuring liquid, the optical LED technology makes the system stable over time and minimize the need for recalibration. The cell is installed directly in line, the maximum allowable pressure is 6 bar, pipe or bypass. The flow velocity does not affect the measurement.



S462/PVC Turbidimetric cell with PVC Body

Applications

- Water treatment plants, downstream of filtration and decantation. process section
- Aging facilities of wastewater reuse for agricultural or industrial purposes.
- Food industry particularly in the production of beverages, wine, beer etc..
- Pool water.



S462/SS Turbidimetric cell with SS Body [only for 4264 series]

S462/PVC

Operating Range	from 0,00 to 100FTU
Max. Pressure	6 bar
Max. Temperature	45°C
Material	PVC black body with threaded connection 2 1/2 " F - Transparent PVC door
Projector and sensors	placed at 180° m mounted on PVC flanges with electrical connector with 2 cables of 5m. with quick connector

S462/SS

Operating Range	from 0,00 to 100FTU
Max. Pressure	6 bar
Max. Temperature	90°C
Material	INOX body with threaded connection 2 1/2 " M - Tempered glass window
Projector and sensors	placed at 180° m mounted on INOX 316 with 5 m. united outgoing cable.

4263 Turbidity & Suspended Solids



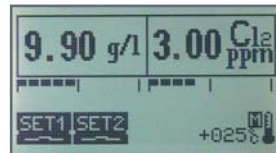
Range

Turbidity

0,0÷4,00 NTU ; 0,0÷40,0 NTU ; 0÷400 NTU ;
0÷4.000 NTU
Resolution 0,01 NTU ; 1 NTU

Suspended Solids

0÷20 gr/l
Resolution 0,1 gr/l



Available versions with double parameter

4263-83 [Suspended Solids - Dissolved Oxygen]

4263-93 [Suspended Solids - Chlorine]

S461 Turbidity Probes/SS submersible

The S461 sensor is used for optical turbidity and suspended solids measurement in pure and process water up to 4000 NTU or 20 gr/l. The probe uses the 90° Scattered Light Method.

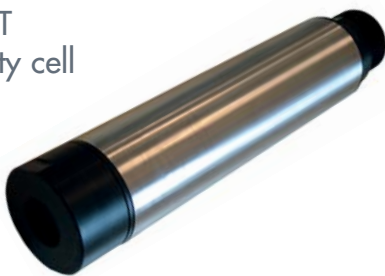
Applications

- Measure in wastewater
- Measure in primary water, industrial water, recirculating water

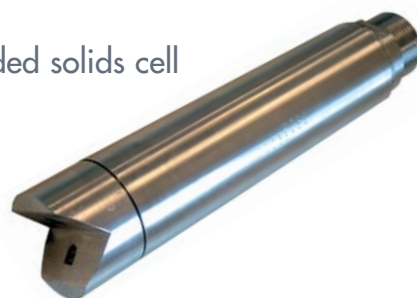
Features and benefits

- Reliable concentration measurement using optical measuring process
- Infrared light pulsing beams scattering method
- Black rigid PVC sensor body
- No mechanically moving parts
- Measured value pre-processing in sensor resulting in low signal transmission sensitivity

S461/T
Turbidity cell



S461/S
Suspended solids cell



Features

Body Material	Stainless Steel INOX 316 Special Optical Glass or Viton	Calibration	points
Thread	1" GAS	Temperature	0÷60 °C
Range	S461/T 0÷4/40/400/4000 NTU S461/S 20 gr/l	Maximum Pressure	4 bar
Measurement Method	Scattering at 90°/light absorption	Protection Degree	IP68 (included cable)
Accuracy	± 3% of f.s.	Cable Length	10m
Repeatability	98 %	Power	12÷24Vdc
		Output	RS485
		Dimensions	∅42 x 230 mm

7520 SAV-T/E • 7540 SRH-T/E

Solids Content Sensor for High Concentrations

The 7520 SAV and 7540 SRH sensors are used for optical solids content measurement in turbid water for up to 150g solid matter/l.

Applications

- Solids content measurement of suspended matter in sewage treatment plants: Primary sludge, digested sludge, thickened sludge, Inflow to centrifuge / press
- Industrial quality control

Features and benefits

- Reliable concentration measurement using optical measuring process
- Four-beam pulsed light method for compensation of sensor soiling and ageing of optical components
- Stainless steel sensor body
- No mechanically moving parts
- Measured value preprocessing in sensor resulting in low signal transmission sensitivity



7520 SAV-T/E

7540 SRH-T/E

Features				
Mechanical data	Dimensions (L x Ø)	Immersion type	139 x 38 Ø mm (7520 SAV)	
		Installation type	134 x 38 Ø mm (7540 SRH) 220 x 38 Ø mm	
	Weight	Immersion type	approx. 1kg	
		Installation type	approx. 3kg	
Mechanical data	Sensor body		Stainless steel SS 316 Ti	
	Sight glass		Epoxy resin	
	O-rings		Viton®	
Turbidity measurement	Measuring principle		Light absorption method (7520 SAV) Backscatter light method (7540 SRH)	
	Optical components		Light source: 2 LEDs, detectors: 2 photodiodes	
	Measuring light		Infrared light at 880nm (absorption maximum)	
	Measuring range		0...50g solid matter/l, dependent on sludge type (7520 SAV) 10...150g solid matter/l, dependent on sludge type (7540 SRH)	
	Accuracy		< 1% of measuring range end value	
	Reference		Using four-beam pulsed light method	
	Cable lengths	T version E version		13m 1m + 10m extension cable
	Calibration			With silica standard
Operating conditions	Operating temperature		0 ... +50°C	
	Operating pressure		max. 6 bar	
	Protection		IP 68	



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