



Sensor technology

Lutz-Jesco GmbH









Sensor type	CS120 - Pt/Cu	CS120 - Pt/Ag	DMZ3*	DMZ3.1
Measuring unit	all oxidising ions	all oxidising ions	all oxidising ions	all oxidising ions
Part number	23722968	23732271	44302002	44302006
Applications	swimming pool water, drinking water, process water	swimming pool	l water, drinking water, process v	vater, salt water
Measuring range	0 – 20 mg/l Cl ₂	0 – 20 mg/l Cl ₂	0 – 10 mg/l Cl ₂	0 – 15 mg/l Cl ₂
Transfer/slope		20 – 30	uA / mg/l	
Electrolyte		Sample	e water	
Electrical connection		Free wire end		N attachment head
Hydraulic connections	G5/8	3 mm	hose 6	i/8mm
Pressure range		0-6	bar	
Flow rate	40-5	50 l/h	30	l/h
Measuring principle	Amperometric open 2-e	electrode measuring cell	amperometric 3-electro potentiosta	
Can be used for water sa	ampling station:			
EASYPRO 1	•	•	-	•
EASYPRO 2	-	-	-	•
EASYPRO 3	-	-	-	•
EASYPRO 4	-	-	-	•
EASYPRO MB-C	-	-	-	•
EASYPRO ME-C	-	-	-	-
EASYPRO MC-C	-	-	-	•
EASYPRO MD-C	-	-	-	-
EASYPRO MP-C	-	-	-	•
EASYPRO MK-C	-	-	-	•
EASYPRO MG-C	-	-	-	-
EASYPRO SMART CPL	-	•	-	-
EASYPRO SMART CP	•	•	-	-
EASYPRO SMART RP	-	-	-	-
EASYPRO COMPACT	-	-	-	•
EASYPRO 1 CS	•	•	-	-
EASYPRO 1 PH	-	-	-	-
EASYPRO 1 RD	-	-	-	-
EASYPRO 1 CD	-	-	-	-
EASYPRO 1 CH	-	-	-	-
EASYPRO 1 LF	-	-	-	-
EASYPRO 1 GC	-	-	-	-
EASYPRO 1 DO	-	-	-	-
EASYPRO 1 TR	-	-	-	-

^{*}Available as a spare part for: EASYPRO LB-C, LC-C, LP-C and LK-C, as well as EASYPRO CD and EASYPRO CP









Sensor type	CI 4.2	CI 4.2	Cl 4.2	Cl 4.2
Measuring unit	free chlorine	free chlorine	free chlorine	free chlorine
Part number	23700613	23700608	23700614	23700616
Applications	swimming pool water, drinking water, process water	swimming pool water, drinking water, process water, salt water	swimming pool water, drinking water	
Measuring range	0 – 0.5 mg/l Cl ₂	0 – 2 mg/l Cl ₂	0 – 5 mg/l Cl ₂	0 – 10 mg/l Cl ₂
Transfer/slope		4 – 2	0 mA	
Electrolyte		Diaphragm cap	with electrolyte	
Connection		Free w	ire end	
Pressure range		0-0.	5 bar	
Flow rate		30	l/h	
Measuring principle		amperometric membran	e-covered measuring cell	
Can be used for water sam	pling station:			
EASYPRO 1	•	•	•	•
EASYPRO 2	•	•	•	•
EASYPRO 3	•	•	•	•
EASYPRO 4	•	•	•	•
EASYPRO MB-C	-	-	-	-
EASYPRO ME-C	-	-	-	-
EASYPRO MC-C	-	-	-	-
EASYPRO MD-C	•	•	•	•
EASYPRO MP-C	-	-	-	-
EASYPRO MK-C	-	-	-	-
EASYPRO MG-C	•	•	•	•
EASYPRO SMART CPL	-	-	-	-
EASYPRO SMART CP	-	-	-	-
EASYPRO SMART RP	-	-	-	-
EASYPRO COMPACT	-	-	-	-
EASYPRO 1 CS	-	-	-	-
EASYPRO 1 PH	-	-	-	-
EASYPRO 1 RD	-	-	-	-
EASYPRO 1 CD	-	-	-	-
EASYPRO 1 CH	•	•	•	•
EASYPRO 1 LF	-	-	-	-
EASYPRO 1 GC	-	-	-	-
EASYPRO 1 DO	-	-	-	-
EASYPRO 1 TR		-	-	-

Overview Sensors Disinfectants



Sensor type	CD 4.2	CD 4.2	GCM	GCM	GCM	
Measuring unit	Chlorine	e dioxide		Total chlorine		
Part number	23700604	23700605	23700751	23700752	23700753	
Applications	drinking water, process water	drinking water, rinsing water, process water	swimming p	swimming pool water, drinking water, process wa		
Measuring range	0 – 0,5 mg/l ClO ₂	0 – 2 mg/l ClO ₂	0 – 2 mg/l Cl _{total}	0 – 5 mg/l Cl _{total}	0 – 10 mg/l Cl _{total}	
Transfer/slope			4 – 20 mA			
Electrolyte		Di	aphragm cap with electroly	/te		
Connection			Free wire end			
Pressure range	0-0.	5 bar		0–1 bar		
Flow rate			30 l/h			
Measuring principle		amperome	tric membrane-covered me	asuring cell		
Can be used for water	sampling station:					
EASYPRO 1	•	•	•	•	•	
EASYPRO 2	•	•	•	•	•	
EASYPRO 3	•	•	•	•	•	
EASYPRO 4	•	•	•	•	•	
EASYPRO MB-C	-	-	-	-	-	
EASYPRO ME-C	-	-	-	-	-	
EASYPRO MC-C	-	-	-	-	-	
EASYPRO MD-C	-	-	-	-	-	
EASYPRO MP-C	-	-	•	•	•	
EASYPRO MK-C	-	-	-	-	-	
EASYPRO MG-C	-	-	•	•	•	
EASYPRO SMART CPL	-	-	-	-	-	
EASYPRO SMART CP	-	-	-	-	-	
EASYPRO SMART RP	-	-	-	-	-	
EASYPRO COMPACT	-	-	-	-	-	
EASYPRO 1 CS	-	-	-	-	-	
EASYPRO 1 PH	-	-	-	-	-	
EASYPRO 1 RD	-	-	-	-	-	
EASYPRO 1 CD	•	•	-	-	-	
EASYPRO 1 CH	-	-	-	-	-	
EASYPRO 1 LF	-	-	-	-	-	
EASYPRO 1 GC	-	-	•	•	•	
EASYPRO 1 DO	-	-	-	-	-	
EASYPRO 1 TR	-	-	-	-	-	











Sensor type	WP7	BR 1	BR 1	MST 1	P10
Measuring unit	Hydrogen peroxide	free bromine	free bromine	Chlorite	Peracetic acid
Part number	23700615	23700618	23700619	23700625	23700631
Applications		Process water		swimming pool water, drinking water, process water	process water, salt water
Measuring range	0.5 – 200 mg/l	0 – 2 mg/l	0 – 5 mg/l	0.5 – 2 mg/l	0.1 – 20 mg/l
Transfer/slope			4 – 20 mA		
Electrolyte		D	iaphragm cap with electroly	rte	
Connection			Free wire end		
Pressure range			0–0.5 bar		
Flow rate			30 l/h		
Measuring principle		Me	mbrane-covered measuring	ı cell	
Can be used for water	r sampling station:				
EASYPRO 1	•	•	•	•	•
EASYPRO 2	•	•	•	•	•
EASYPRO 3	•	•	•	•	•
EASYPRO 4	•	•	•	•	•
EASYPRO MB-C	-	-	-	-	-
EASYPRO ME-C	-	-	-	-	-
EASYPRO MC-C	-	-	-	-	-
EASYPRO MD-C	-	-	-	-	-
EASYPRO MP-C	-	-	-	-	-
EASYPRO MK-C	-	-	-	-	-
EASYPRO MG-C	-	-	-	-	-
EASYPRO SMART CPL	-	-	-	-	-
EASYPRO SMART CP	-	-	-	-	-
EASYPRO SMART RP	-	-	-	-	-
EASYPRO COMPACT	-	-	-	-	-



Measuring cell for measuring pH value









Sensor type	PE110	PE110	PE110	PE110
Part number	44101001	44101002	44101003	44101004
Applications	Drinking water Process water, light soiling warm water	Drinking water Process water heavy soiling warm water	Boiler water Drinking water	Swimming pool water Drinking water
Measuring range		0 – 14 pH		2 – 12 pH
Transfer/slope		52 – 59 m\	/ / pH value	
Electrolyte	KCI	(Gel)	KCl (liquid)	KCl (Gel)
Connection		N attachment head with	screw-in thread PG 13.5	
Pressure range	0-6	bar	max. 6 bar with pressure cap	0–6 bar
Temperature range	0 - 80 °C	0 – 130 °C	0 – 60 °C	0 – 50 °C
Installation length	120	mm	180 mm	120 mm
Shaft diameter		approx	. 12mm	
Measuring principle		pH single-rod	measuring cell	
Can be used for water san	npling station:			
EASYPRO 1	•	•	•	•
EASYPRO 2	•	•	•	•
EASYPRO 3	•	•	•	•
EASYPRO 4	•	•	•	•
EASYPRO MB-C	•	-	-	•
EASYPRO ME-C	•	-	-	•
EASYPRO MC-C	•	-	-	•
EASYPRO MD-C	•	-	-	•
EASYPRO MP-C	•	-	-	•
EASYPRO MK-C	•	-	-	•
EASYPRO MG-C	•	-	-	•
EASYPRO SMART CPL	•	-	-	•
EASYPRO SMART CP	•	-	-	•
EASYPRO SMART RP	•	-	-	•
EASYPRO COMPACT		-	-	•
EASYPRO 1 CS		-	-	-
EASYPRO 1 PH	•	•	•	•
EASYPRO 1 RD	-	-	-	-
EASYPRO 1 CD	-	-	-	-
EASYPRO 1 CH	-	-	-	-
EASYPRO 1 LF	-	-	-	-
EASYPRO 1 GC	-	-	-	-
EASYPRO 1 DO	-	-	-	-
EASYPRO 1 TR	-	-	-	•

Measuring cells for measuring the Redox value



Sensor type	ME110	ME110	ME110	ME110
Part number	44102011	44102013	44102014	44102019
Applications	Swimming pool water Process water, light soiling	Heavily contaminated process water	Boiler water	Salty waters
Measuring range		0 – 10	00 mV	
Electrolyte	KCI	(Gel)	KCl (liquid)	KCl (Gel)
Connection		N attachment head with	screw-in thread PG 13.5	
Pressure range		0-6	bar	
Temperature range		0 – 80 °C		0 – 50 °C
Installation length		120	mm	
Shaft diameter		approx.	. 12mm	
Measuring principle		Redox single-roo	d measuring cell	
Can be used for water sam	pling station:			
EASYPRO 1	•	•	•	•
EASYPRO 2	•	•	•	•
EASYPRO 3	•	•	•	•
EASYPRO 4	•	•	•	•
EASYPRO MB-C	-	-	-	-
EASYPRO ME-C	•	-	-	•
EASYPRO MC-C	•	-	-	•
EASYPRO MD-C	•	-	-	•
EASYPRO MP-C	•	-	-	•
EASYPRO MK-C	•	-	-	•
EASYPRO MG-C	•	-	-	•
EASYPRO SMART CPL	-	-	-	-
EASYPRO SMART CP	-	-	-	-
EASYPRO SMART RP	•	-	-	•
EASYPRO COMPACT	•	-	-	-
EASYPRO 1 CS	-	-	-	-
EASYPRO 1 PH	-	-	-	-
EASYPRO 1 RD	•	•	•	•
EASYPRO 1 CD	-	-	-	-
EASYPRO 1 CH	-	-	-	-
EASYPRO 1 LF	-	-	-	-
EASYPRO 1 GC	-	-	-	-
EASYPRO 1 DO		-	-	-
EASYPRO 1 TR				-

EASYPRO 1 TR

Further measuring cells



Sensors for measuring the temperature



Fittings for accepting the sensors

The chlorine measuring cell, pH and Redox electrodes, temperature sensor and flow control have been combined into a single unit to facilitate integration into the system. Lutz-Jesco provides a wide range of different fittings, so that you always have the correct solution for connecting the sensors into your process.















Fitting type	PRMZ	LMZ	DC111-2	DC111-3	DW111-3	DC111-DN20	DC111-DN25
Part number	44302004	44302007	37700	37701	37702	41100101	41100102
Version	PRMZ measuring cell fitting	LMZ measuring cell fitting	Throughflow fitting				
Number take-up electrodes		1	2 3 1				1
Type of the electrodes	pH, redox sin- gle-rod measur- ing cells	Conductivity electrode	Single-rod measuring cells Conductivity measuring cells				
for connection			Sc	crew-in thread PG 13	3.5		
Temperature	60	°C	40 °C				
Discharge			max. 6 bar max. 10 bar at 20 °C				ar at 20 °C
Material	Lui	ran	PMMA PVC			/C	
Can be shut-off	Cannot be shut-off						

Fittings for accepting the sensors









Fitting type	DP111	DT111	EC 111-500 mm	EC 111-1000 mm	EP 111-426 mm	
Part number	41100103	41131288	41100104	41100110	41100105	
Version	Throughf	low fitting	Immersion fitting			
Number take-up elec- trodes	3	2	1		3	
Type of the electrodes	Single-rod measuring cells, conductivity measuring cells					
for connection			Screw-in thread PG 13.5			
Temperature	max. 95 °C	max. 40 °C	max. 95 °C			
Discharge	6 bar (at 25 °C) Pressure-free					
Material	PP	Plastic housing	PP			
Can be shut-off	Cannot be shut-off					
Immersion tube length	-	-	500 mm	1000 mm	426 mm	









Fitting type	DW111-PP	DW111-PVDF	Throughflow fitting	TR10/TR100	
Part number	41100115	41100116	37699	44305002	
Version	Changeov	ver device	Throughfle	ow fitting	
Number take-up electrodes			1		
Type of the electrodes	pH or Redox single-rod measuring cells		Membrane-covered measur- ing cells	Turbidity sensor	
Connection	3/4"		for hose 6/12 mm	hose 8/12mm	
Temperature	max. 70 °C	max. 120 °C	max. 40 °C	max. 50 °C	
Discharge	5 bar (at 50 °C)		depending on the measuring cell used	4 bar	
Material	PP	PP PVDF		PP black	
Can be shut-off	Cannot be shut-off				

Sensor technology accessories

Choose from a comprehensive range of accessories for sensor technology. Measuring lines and sockets for various designs. Buffer, calibration, potassium chloride and cleaning solutions complete our offer.





Photometer

Photometers serve the adjustment of measurement systems through reference measurements. Systems with multiple measuring cells need simple and quick reference measurements.

The Lutz-Jesco photometer combines this requirement with high measurement accuracy and a robust structure.

An overview of the three measuring principles

Potentiometry

■ Potentiometry measures the potential of the electrode in a measurement solution.

Amperometry

■ This enables the determination of the concentration of various substances by current measurement in watery solutions.

Conductometry

■ This measurement principle measures the electrolytic conductivity.









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