

MSB

CONTROL INSTRUMENT

Data
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CHARACTERISTICS

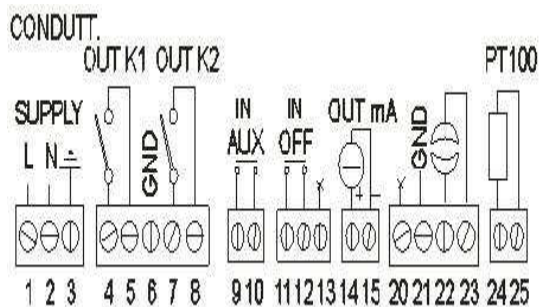
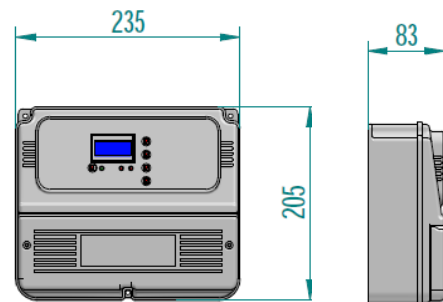
- ✓ LCD backlit display
- ✓ Protection Degree IP65
- ✓ Power Supply 230 V
- ✓ Protections self-resetting by fuse
- ✓ Operating temperature: $-10 \div +50^{\circ}\text{C}$
- ✓ Probe input on terminal board
- ✓ Flow sensor input
- ✓ PT100 temperature probe visualization (probe not included)

Digital control instrument with
microprocessor



TECHNICAL FEATURES

- ✓ Power Supply 230 V $\pm 10\%$ 50-60 Hz
- ✓ Power 7VA max (relay output version)
- ✓ ON/OFF output 2 free-standing relays on extractable
- ✓ 5 PIN terminal board, contacts max load 250 V ~ 3A resistive
- ✓ $0/4 \div 20$ mA proportional output on max 600 Ω load Max error 0,5% f.s.
- ✓ OFF/LEV input to enable pure contact outputs
- ✓ Clamps potential difference 5V max electricity 5mA



Specifications can be changed without notice

Via Maestri del Lavoro, 5 - 02100 Vazia (RI) - ITALY Tel.: + 39(0)746-229064;
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MSB CONDUCTIVITY

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SUITABLE PROBES

Model	Electrodes	Operating Limits	Fitting	Cell Constant (K)	Body	PICTURE	
PRO-CD-KJ1	SS AISI 316	1 µs/cm up to 20.000 µs/cm	jack	K=1 cm (1 cm-1) ±5%	PVC		
PRO-CD-KJ5	SS AISI 316	0,5-1 µs/cm up to 1600 µs/cm	Jack	K=5 cm (0,2cm-1) ±5%	PVC		
Model	Electrodes	Operating Limits	Constant (K)	Body	PICTURE		
PRO-CD-K5	SS AISI 316	0,5-1 µs/cm up to 1600 µs/cm	K=5	PVC			
PRO-CD-KP5 C/PT1000	SS AISI 316	0,5-1 µs/cm up to 1600 µs/cm	K=5	PTFE			
PRO-CD-K1	Graphite	1 µs/cm up to 20.000 µs/cm	K=1	PVC			
PRO-CD-KP1 C/PT1000	Graphite	1 µs/cm up to 20.000 µs/cm	K=1	PTFE			
Model	T°	Installation	Operating Limits	Pressure	Constant (K)	Body	PICTURE
PRO-CKA 0,1 con PT1000	Max 200°C	3 / 4” GAS	0,1 µs/cm up to 2.000 µs/cm	Max 17 BAR	K=0,1 cm (0,1 cm-1) ±5%	AISI 316	
PRO-CKA 1 con PT1000	Max 200°C	3 / 4” GAS	1 µs/cm up to 20.000 µs/cm	Max 17 BAR	K=10 cm (10 cm-1) ±5%	AISI 316	
PRO-CKA 10 con PT1000	Max 200°C	3 / 4” GAS	10 µs/cm up to 200.000 µs/cm	Max 17 BAR	K=10 cm (10 cm-1) ±5%	AISI 316	
Model	T°	Body	Operating Limits	Pressure	Constant (K)	Electrodes	PICTURE
PRO-CKG 0,1	Max 100°C	Glass Ø 12 mm	0,1 µs/cm up to 2.000 µs/cm	Max 2 BAR	K=0,1 cm (0,1 cm-1) ±5%	Platinum	
PRO-CKG 1	Max 100°C	Vetro Ø 12 mm	1 µs/cm up to 20.000 µs/cm	Max 2 BAR	K=10 cm (10 cm-1) ±5%	Platinum	
PRO-CKG 10	Max 100°C	Vetro Ø 12 mm	10 µs/cm up to 200.000 µs/cm	Max 2 BAR	K=10 cm (10 cm-1) ±5%	Platinum	
PRO-CKE 0,1	Max 100°C	Epoxy Ø 12 mm	0,1 µs/cm up to 2.000 µs/cm	Max 2 BAR	K=0,1 cm (0,1 cm-1) ±5%	Platinum	
PRO-CKE 1	Max 100°C	Epoxy Ø 12 mm	1 µs/cm up to 20.000 µs/cm	Max 2 BAR	K=10 cm (10 cm-1) ±5%	Platinum	
PRO-CKE 10	Max 100°C	Epoxy Ø 12 mm	10 µs/cm up to 200.000 µs/cm	Max 2 BAR	K=10 cm (10 cm-1) ±5%	Platinum	

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SUITABLE PRO-CP PROBES

	CLI-B	CLI-M	CLI-A	CLO-M	CTO-B	CTO-M	BC-B	BC-M	AP-B	AP-M	PI-B	PI-M
Range mg/l	0÷2	0÷20	0÷200	0÷20	0÷2	0÷20	0÷2	0÷20	0÷200	0÷2000	0÷200	0÷2000
Resolution	±0,001	±0,01	± 1	±0,01	±0,001	±0,01	±0,001	±0,01	±0,1	± 1	±0,1	± 1
Operating PH	6÷8	6÷8	6÷8	6÷8	balanced		balanced		Not influential		Not influential	
Flow Rate	30÷40 l/h	30÷40 l/h	30÷40 l/h	30÷40 l/h	30÷40 l/h	30÷40 l/h	30÷40 l/h	30÷40 l/h	30÷40 l/h	30÷40 l/h	30÷40 l/h	30÷40 l/h
Cable	1,5 mt	1,5 mt	1,5 mt	1,5 mt	1,5 mt	1,5 mt	1,5 mt	1,5 mt	1,5 mt	1,5 mt	1,5 mt	1,5 mt
Connection	4 wires	4 wires	4 wires	4 wires	4 wires	4 wires	4 wires	4 wires	4 wires	4 wires	4 wires	4 wires
Temperature	5÷50°C	5÷50°C	5÷50°C	5÷50°C	5÷50°C	5÷50°C	5÷50°C	5÷50°C	5÷50°C	5÷50°C	5÷50°C	5÷50°C
Pressure	1 BAR	1 BAR	1 BAR	1 BAR	1 BAR	1 BAR	1 BAR	1 BAR	1 BAR	1 BAR	1 BAR	1 BAR
Diameter	Ø 25mm	Ø 25mm	Ø 25mm	Ø 25mm	Ø 25mm	Ø 25mm	Ø 25mm	Ø 25mm	Ø 25mm	Ø 25mm	Ø 25mm	Ø 25mm
Lenght	175 mm	175 mm	175 mm	175 mm	175 mm	175 mm	175 mm	175 mm	175 mm	175 mm	175 mm	175 mm



CLI-x Inorganic Active Free Chlorine

CLO-M Organic Active Free Chlorine

CTO-x Total Chlorine

BC-x Chlorine Bioxide

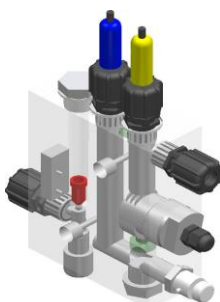
PI-x Hydrogen Peroxide

AP-x Peracetic Acid

To work properly Chlorine probes must be feed with a constant water flow between 30 e 50 l/h. Probes must be used with plexiglass probe holder PRO-HC-CP

SUITABLE PRO-CG-CL3 / PRO-CG-CL1 PROBES

MODEL	PRO-CG-CL3
Range mg/l	0÷10
Resolution	±0,01
Flow Rate	30÷40 l/h
Cable	1,5 mt
Connection	2 FILI
Temperature	5÷50°C
Pressure	1 BAR



PRO-CG-CL1

Range mg/l	0÷5
Resolution	±0,01
Flow Rate	30÷40 l/h
Cable	1,5 mt
Connection	2 FILI
Temperature	5÷50°C
Pressure	1 BAR



To work properly Chlorine probes must be feed with a constant water flow between 30 e 50 l/h.

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SUITABLE PROBES

PRO-OX

Measurement Range: from 0.00 to 20.00 ppm
(PRO-OX1 version) and from 0.00 to 40.00 ppm
(PRO-OX2 version)

Reading System: selective membrane with
silver-platinum electrodes and alkaline electrolyte

First polarization interval: minimum 15 minutes (around),
maximum 1 hour

Operating Back Pressure: max 0,5 bar with probe
completely submerged.

Responding Interval T90: 60 sec. / 2 min at 25°C

Minimum Flow: 0,03 m/s

**Automatic Thermo-compensation by integrated sensor PT
1000**

Operating Temperature: from 0 to 60°C

Fitting: PG 13,5

Sensor body material: stainless steel

Seals: PEEK silicon and NBR

Multi-polar isolated cable 4 meters lenght
(10 meters cable also available)

Dimensions: Ø 12 x 120 mm



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MSB PH-REDOX

SUITABLE PROBES

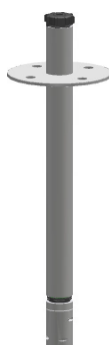
Model	PRO-PH	PRO-PH-C	PRO-G	PRO-P	PRO-H	PRO-RX	PRO-RX-C	PRO-G	PRO-P	PRO-H
Measure	pH	pH	pH	pH	pH	REDOX	REDOX	REDOX	REDOX	REDOX
Range	0÷14	0÷14	0÷14	0÷14	0÷14	±1500	±1500	±2000	±2000	±2000
Resolution	±0,01	±0,01	±0,01	±0,01	±0,01	±0,01	±0,01	±0,01	±0,01	±0,01
Offset	±20 mV	±20 mV	±20 mV	±20 mV	±20 mV	±20 mV	±20 mV	±20 mV	±20 mV	±20 mV
Pressure	3 BAR	3 BAR	2 BAR	2 BAR	6 BAR	3 BAR	3 BAR	2 BAR	2 BAR	6 BAR
Body	Epoxy	Epoxy	Glass	Epoxy	Glass	Epoxy	Epoxy	Glass	Epoxy	Glass
Diameter Ø	12	12	12	12	12	12	12	12	12	12
Connector	BNC	BNC	S7	S7	S7	BNC	BNC	S7	S7	S7
Cable mt	'1-5-10	'1-5-10	Con cavo S7 – bnc definibile			'1-5-10	'1-5-10	Con cavo S7 – bnc definibile		
Septum	porous	porous	KCL	KCL	3 setti t/comp.to	porous	porous	KCL	KCL	3 setti t/comp.to
Temperature	5÷70°C	5÷70°C	5÷80°C	5÷50°C	5÷130°C	5÷70°C	5÷70°C	5÷80°C	5÷50°C	5÷130°C
Conductivity	100 µS	100 µS	100 µS	100 µS	100 µS	100 µS	100 µS	100 µS	100 µS	100 µS
Lenght	125 mm	80 mm	125 mm	125 mm	125 mm	125 mm	80 mm	125 mm	125 mm	125 mm

To work properly Chlorine probes must be feed with a constant water flow between 30 e 50 l/h.

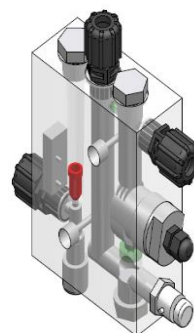
Probe Holder: examples of installation



IN-LINE probe holder



Immersion probe holder



Outflow plexiglass probe holder

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SUITABLE PROBES

GENERAL TECHNICAL FEATURES

Panel material: PVC

Body Cell: antistatic polyethylene

Optical Groups: antistatic polyethylene

Lens: tempered crystal

Gaskets: NBR

Operating Temperature: max 60°C

Back Pressure: max 3 bar

Liquid input and output: thread 1/4" GAS with hose
Ø 12

Dimensions 330 x 330 mm



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