

MSP

Digital control instrument with microprocessor

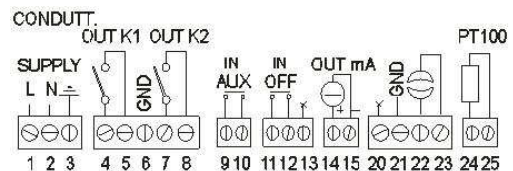
CHARACTERISTICS

- ✓ LCD backlit display
- ✓ 2 ON / OFF outputs
- ✓ 1 digital 0/4÷20 mA output
- ✓ Protections self-resetting by fuse
- ✓ Operating temperature: -10 ÷ +50°C
- ✓ Probe input on terminal board
- ✓ Flow sensor input
- ✓ PT100 temperature probe visualization (probe not included)



TECHNICAL FEATURES

- ✓ Power Supply 230 V +/- 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÷20 mA proportional output on max 600 Ω load Max error 0,5% f.s.
- ✓ OFF/LEV input to unale pure contact outputs Clamps potential difference 5V max electricity 5mA
- ✓ Weight 400 gr



Box Case

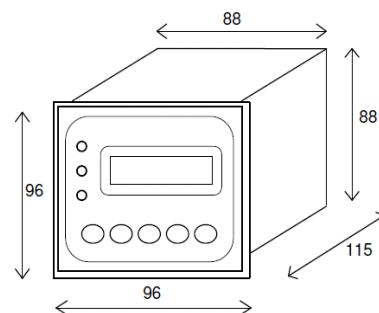
Protection degree IP 42

Bracket mounting Noryl case 96 x 96 depth 115 mm

Storage temperature: -20 ÷ +60°C (-4 °F ÷ 140°F)

Operating temperature: -10 ÷ +50°C (14°F ÷ 122°F)

MAX humidity 90% without condensation



Specifications can be changed without notice

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MSP CL CONTROL INSTRUMENT

Data
Sheet

PRO-CP SUITABLE 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
PH operating range	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 Free Active Chlorine

CLO-M Organic Free Active Chlorine

CTO-x total chlorine

BC-x Chlorine Bioxide

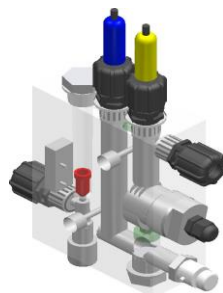
PI-x Hydrogen Peroxide

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

PRO-CG-CL3 / PRO-CG-CL1 SUITABLE 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 wires
Temperature	5÷50°C
Pressure	1 BAR



PRO-CG-CL3

MODEL	PRO-CG-CL1
Range mg/l	0÷5
Resolution	±0,01
Flow Rate	30÷40 l/h
Cable	1,5 mt
Connection	2 wires
Temperature	5÷50°C
Pressure	1 BAR



PRO-CG-CL1

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


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MSP CONDUCTIVITY


Data Sheet

SUITABLE PROBES

Model	Electrodes	Operating Limits	Fitting	Cell Constant (K)	Body	Picture
PRO-CD-KJ1	Stainless Steel AISI 316	1 µs/cm up to 20.000 µs/cm	jack	K=1 cm (1 cm-1) ±5%	PVC	
PRO-CD-KJ5	Satinless Steel 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	Cell 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° Operating	Installation	Operating Limits	Pressure	Cell Constant (K)	Body	Picture
PRO-CKA 0,1 with 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 with 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 with 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° Operating	Body	Operating Limits	Pressure	Cell 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	Glass 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	Glass 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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MSP OXYGEN

SUITABLE PROBES

CHARACTERISTICS

Picture

GENERAL TECHNICAL FEATURES

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 length
(10 meters cable also available)

Dimensions: Ø 12 x 120 mm



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MSP PH - REDOX

SUITABLE PROBES

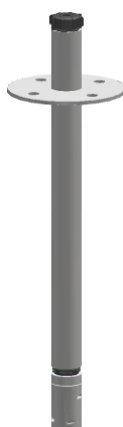
Model	PRO-PH	PRO-PH-C	PRO-G	PRO-P	PRO-H	PRO-RX	PRO-RX-C	PRO-G	PRO-P	PRO-H
Measure	pH	pH	pH	pH	pH	REDOX	REDOX	REDOX	REDOX	REDOX
Range	0÷14	0÷14	0÷14	0÷14	0÷14	±1500	±1500	±2000	±2000	±2000
Resolution	±0,01	±0,01	±0,01	±0,01	±0,01	±0,01	±0,01	±0,01	±0,01	±0,01
Offset	±20 mV	±20 mV	±20 mV	±20 mV	±20 mV	±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.

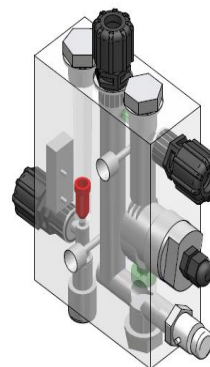
Probe Holder: examples of installation



IN-LINE probe holder



Immersion probe holder



Outflow plexiglass probe holder

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MSP TURBIDITY

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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