

# Dialog W-CI-PR

Versatile meter, 2-channel version for  
pH/ORP and chlorine (free and total)  
(also available for oxygen, chlorine dioxide, ozone  
and hydrogen peroxide)

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**Kuntze Instruments**  
Instrumentation for Water  
and Waste Water Analysis  
3316 Leechburg Road  
Lower Burrell, PA 15068  
Tel: 724-339-8510  
kuntze01@comcast.net  
www.kuntze-instr.com

## Description

Microprocessor-controlled 2-channel meter with wall-mounting enclosure IP-65, designed for water analysis applications. Two inputs to connect one pH- or ORP sensor and one chlorine sensor - each with or without Pt 100. Chlorine sensors can be open or membrane-covered potentiostatic 3-electrode sensors; 2-electrode sensors can also be used. Channel 1 can be used for pH or Redox.

DIALOG PA-W is also available for measurements of dissolved oxygen, chlorine dioxide, ozone, or hydrogen peroxide.

## Main applications

- Waste water treatment
- Water purification
- Potable water
- Metal finishing industry
- Chemical industry
- Food & Beverage Industry

## Features

- Polycarbonate wall-mounting enclosure IP-65 NEMA 4X
- Spring loaded terminals for easy installation
- Large illuminated LCD screen capable of alphanumeric and graphical presentation of measured value and customer programmed data
- Easy user-guided operation with only eight keys
- Password function preventing unauthorised access
- Integrated potentiostat for measurement of chlorine (or any other of the substances listed above)
- Double measurement
- Channel 1 configurable for pH or ORP
- 3 outputs configurable for channel 1, channel 2, temperature measurement, or as continuous control output
- 4 inputs configurable for channel 1, channel 2, temperature 1, temperature 2, or for variable disturbance
- Temperature compensation either manually or via Pt-100
- Monitoring of slope and asymmetric potential (with pH)
- Galvanically isolated inputs and outputs



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## Controller (Option)

- 2 Set points and alarm relays, freely configurable
- On/off controller with adjustable hysteresis
- PID controller (pulse-pause or pulse-frequency controller)
- PID 3-point controller
- One output configurable as continuous control output
- Variable disturbance implementable (0/4 – 20 mA)
- Indication of set point relay status in the display
- Manual operation of set points
- Adjustable power up delay
- Controller stop via external contact

## Additional options

- Additional serial interface RS-485
- Power supply 24 VDC

## Technical data

Power:	24 or 130 or 230 VAC, + 6 %, - 10 %, 40 ... 60 Hz
Optional	24 VDC
Power consumption:	10 VA
Ambient temperature:	operation 0 - 50 °C storage - 20 - 65 °C
Humidity, % rF: (non-condensing)	max. 90 % at 40 °C
Enclosure:	wall-mounting polycarbonate enclosure 160 x 165 x 85 mm (HxWxD) Protection class IP-65 (NEMA 4 X)
Weight: 1.25	kg
Connectors: Springloaded	terminals
Analogue inputs:	4 inputs, two of them high-resistant, configurable for channel 1, channel 2, temperature 1, temperature 2, or variable disturbance (with controller option)
Measuring ranges:	0.00 – 14.00 pH / -1,500 - +1,500 mV 0.00 ... 5.00 mg/l (chlorine) / -30 - 140 °C Or 0.00 ... 5.00 mg/l chlorine dioxide Or 0.00 ... 2.00 mg/l ozone Or 5 ... 100 mg/l hydrogen peroxide
other	measuring ranges available
Accuracy:	+/- 0.01 pH / +/- 1 mV / +/- 1 % of the upper limit or +/- 0.05 mg/l (whichever the greater) / +/- 0.1 °C
Analogue outputs:	3 outputs 0/4 - 20 mA, galvanically isolated, configurable for measured value 1, measured value 2, temperature measurement, or as continuous control output
Registration ranges:	adjustable within measuring ranges
Load: max.	400 Ohm
Interface:	RS 485 / second interface optional
Electromagn. compatibility:	according to DIN EN 50081-1 and 50081-2
In compliance with:	CE

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## Controller (Option)

to control solenoid valves, actuators or feeding pumps,  
2 set points (freely configurable) and alarm

Control functions:	on/off controller with adjustable hysteresis PID controller (pulse-pause or pulse-frequency controller Or continuous control output 0/4 – 20 mA)
Disturbance variable:	0/4 – 20 mA
Manual operation:	manual operation of set points possible
Alarm delay:	adjustable (0 – 1999 s)
Relays outputs:	3 relays outputs for SP 1, SP 2, alarm, each with 1 NO/NC contact (SPDT) max. 250 V, 6 A, 550 VA; indication of set point relay status in the display
Digital input	external contact hold (controller stop)

## Order numbers:

DIALOG PA-W wall-mounting enclosure 165x160x85 mm, without controller	7699441
DIALOG PA-W wall-mounting enclosure 165x160x85 mm, with controller	7699445
Optional second interface RS-485	7611453

If supply voltage differs from 130 vac, please indicate.