

# DULCOMETER® diaLog DACa Controller

Intelligent measuring and control



**ProMinent®** introduces its latest multi-parameter controller, the **Dialog DACa**. Built on a new platform, the DAC offers a single or dual channel controller for the continuous measurement and control of process variables in water and wastewater applications.

The large screen HMI allows for easy viewing of process events and changes color when faults occur. Datalogging and SD card storage allows the operator to keep valuable information for over a year!

Packaged in a NEMA 4X enclosure, the DAC offers more flexibility for industrial and municipal projects by offering measurement of up to 14 process variables, pH and temperature compensation, feed forward and two analog outputs. Create a complete packaged system by adding sensors, flow cell, plumbing and backpanel.

## Features & Benefits

- Single or Dual Channel
- Analog or Digital sensor connection
- 2-way PID control
- Data and event logging with SD Card (optional)
- Two analog outputs
- Five digital inputs
- Two frequency outputs
- Two powered relays
- Measured value trend display
- pH compensation of Free Chlorine
- Temperature compensation of pH, conductivity, fluoride and ClO<sub>2</sub>
- NEMA 4X enclosure
- LAN/ Ethernet Connectivity

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## Specifications

<b>Measuring range</b>	
mV connection type	pH: 0.00 - 14.00
	ORP voltage: -1,500 - +1,500 mV
Connection type mA	Chlorine, Chlorine dioxide, Chlorite, Bromine, Ozone, Hydrogen peroxide (PER sensor), Hydrogen peroxide (PEROX sensor with converter), Peracetic acid
Connection type mA	pH, ORP voltage, Fluoride
Conductivity	via Transmitter 0/4 - 20 mA
Temperature	via Pt 100/Pt 1000, measuring range 0 - 302 °F
<b>Resolution</b>	pH: 0.01
	ORP voltage: 1 mV
	Temperature: 32 °F
	Amperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 vol. %, 0.1 vol. %
<b>Accuracy</b>	0.3 % based on the full-scale reading
<b>Measurement input</b>	pH/ORP (input resistance > 0.5 x 10 <sup>12</sup> Ω)
<b>Correction variable</b>	Temperature via Pt 100/Pt 1000
<b>Correction range</b>	0 - 212 °F
<b>pH compensation range for chlorine</b>	6.5 - 8.5
<b>Disturbance signals</b>	Flow via mA or frequency
<b>Control characteristic</b>	P/PID control
<b>Control</b>	2 x bidirectional control
<b>Signal current output</b>	2 x 0/4 - 20 mA electrically isolated, max. load 450 Ω, range and allocation (measured, correction, control variable) can be set
<b>Control outputs</b>	2 x 2 pulse frequency outputs for metering pump control
	2 relays (limit value, 3-point step or pulse length control)
	2 x 0/4 - 20 mA
<b>Alarm relay</b>	250 V ~3 A, 700 VA contact type changeover contact
<b>Electrical connection</b>	90-253 V, 50/60 Hz, 25 VA
<b>Ambient temperature</b>	0 - 55 °C (for indoor installation or with protective housing)
<b>Enclosure rating</b>	Wall mounted: IP 67
	Control cabinet mounting: IP 54
<b>Tests and approvals</b>	CE, MET (corresponding to UL according to IEC 61010)
<b>Housing material</b>	PC with flame proofing equipment
<b>Dimensions</b>	250 x 220 x 122 mm (WxHxD)
<b>Weight</b>	3 lbs.



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