

DULCOMETER® diaLog DACa Controller

Intelligent measuring and control



ProMinent®

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 ClO₂
- NEMA 4X enclosure

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Specifications

Measuring range	
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
Resolution	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. %
Accuracy	0.3 % based on the full-scale reading
Measurement input	pH/ORP (input resistance > 0.5 x 10 ¹² Ω)
Correction variable	Temperature via Pt 100/Pt 1000
Correction range	0 - 212 °F
pH compensation range for chlorine	6.5 - 8.5
Disturbance signals	Flow via mA or frequency
Control characteristic	P/PID control
Control	2 x bidirectional control
Signal current output	2 x 0/4 - 20 mA electrically isolated, max. load 450 Ω, range and allocation (measured, correction, control variable) can be set
Control outputs	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
Alarm relay	250 V ~3 A, 700 VA contact type changeover contact
Electrical connection	90-253 V, 50/60 Hz, 25 VA
Ambient temperature	0 - 55 °C (for indoor installation or with protective housing)
Enclosure rating	Wall mounted: IP 67 Control cabinet mounting: IP 54
Tests and approvals	CE, MET (corresponding to UL according to IEC 61010)
Housing material	PC with flame proofing equipment
Dimensions	250 x 220 x 122 mm (WxHxD)
Weight	3 lbs.