

5.2 DULCOMETER® diaLog DACb Multi-parameter Controller

5.2.2 Technical Data diaLog DACb Multi-parameter Controller

Measuring range

mV connection type:
 pH: 0.00 ... 14.00
 ORP voltage: -1500 ... +1500 mV

Connection type mA (amperometric measured variables, measuring ranges corresponding to the sensors):
 Chlorine Chlorine dioxide Chlorite
 Bromine
 Ozone
 Hydrogen peroxide (PER sensor)
 Hydrogen peroxide (PEROX sensor with PEROX transducer V2 Order No. 1047979)
 Peracetic acid
 Dissolved oxygen

Connection type mA (potentiometer measured variables, measuring ranges corresponding to the transmitter):
 pH
 ORP voltage
 Fluoride
 Conductivity (measuring ranges corresponding to the transmitters):
 via Transmitter 0/4 ... 20 mA
 Temperature: via Pt 100/Pt 1000, measuring range 0 ... 150 °C

Resolution	pH: 0.01 ORP voltage: 1 mV Temperature: 0.1 °C 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)
Temperature compensation	Pt 100/Pt 1000 for pH, chlorine dioxide (CDP) sensor and fluoride
Correction range	0 ... 100 °C
pH compensation range for chlorine	Sensor CLE 3 and CLE 3.1: 6.5 ... 8.5, sensor CBR: 6.5 ... 9.5
Disturbance signals	Flow via 0/4 ... 20 mA or contact water meter 1 - 500 Hz, the interference variable acts on both channels (depending on identcode)
Control characteristic	P/PID control
Control	2 x bidirectional control outlets
Analogue outputs	2 (3) x 0/4 ... 20 mA electrically isolated, max. load 450 Ω, range and assignment (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)
Alarm relay	250 V ~3 A, 700 VA contact type changeover contact
Digital control inputs	4 (7) as a remote control input for the functions pause control / sample water fault, parameter set switch-over, level monitoring of chemical tanks
Electrical connection	90 – 253 V, 50/60 Hz, 25 VA, 24 V DC
Field bus connection	PROFIBUS® -DP, Modbus RTU
Ambient temperature	0 ... 50°C (for use indoors or with a protective enclosure)
Enclosure rating	Wall-mounted: IP 66 and IP 67 (NEMA 4X) Installation in the control cabinet: IP 54 for control cabinet door
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	1.3 kg



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5.2.3 Identity Code & Pricing for diaLog DACb

DACb

Mounting type

- W** Wall-mounted
- S** Control panel-mounted

Design

- 00** with ProMinent logo
- 01** without ProMinent logo

Operating voltage

- 4** 24 V DC
- 6** 100 - 230V AC 50/60 Hz

Basic measured variables - Select 1 of the following

- VA** 2 measuring and control channels, connector type mV/temperature + mA, e.g. for PH + chlorine sensors or Ph + fluoride
- AA** 2 measuring and control channels, connector type mA + mA, e.g. for chlorine dioxide/chlorite sensors
- VV** 2 measuring and control channels, connector type mV/temperature + mV temperature, e.g. for pH + ORP or two pH sensors
- L3** 2 measuring and control channels, connector type: conductive conductivity and temperature via Pt100/Pt1000

Extended functions

- 0** none
- 2** Package 2: third measure variable, Ph compensation for chlorine or interference variable (mA) or external setpoint specification via mA, additionally: 2 pump outputs, 3 digital control inputs, 1 mA output
- 3** Package 3: third measure variable of your choice + control, additionally: 2 pump outputs, 3 digital control inputs, 1 mA output
- 4** Package 4: combination of packages 2 and 3

Software default settings

- 0** no default settings

Connection of the measured variables

- 0** all sensor inputs via terminal

Connection of digital sensors/actuators

- 0** none

Communication interface

- 0** none
- A** Modbus RTU, terminal
- B** Profibus DPV1, terminal
- E** LAN with web server, connect via M12 C-coded
- G** Profinet 2xM12 coded

Data logger

- 1** with data logger (SD card interface + SD card + card reader)

Hardware extension

- 0** none
- 1** Protective RC circuit (relay)

Approvals

- 01** CE (Standard)

Certificates

- 0** none

English

RC Protection board [spare part] P/N 733880

Extended Functions
 Versions 0 & 4 are stocked in Sydney
 Versions 2 & 3 are ex Germany

***Note:** NOT for 24VDC Version

DACb W 00 6 VA 0 0 0 X 0 1 0 01 0 EN

