



DULCOTEST® Chlorine Sensors

With the DULCOTEST® Chlorine Sensor Product Family, free Chlorine, organic compound Chlorine, Total Chlorine and Compound Chlorine can be measured. Therefore, there are three sensor-series each consisting of several sensor types for different measuring ranges.

Application areas

Selective or summary registration of Chlorine compounds

- free Chlorine (Cl_2 , HOCl , OCl^-)
- organic compound Chlorine (e.g. Isocyanuric acid derivatives)
- Total Chlorine (Cl_2 , HOCl , OCl^- , Chloramines, organic compound Chlorine)
- Compound Chlorine (Chloramines, from the difference of total Chlorine and free Chlorine)

Advantages

- Use in most different water qualities (as to pH value, salt content, temperature, pollution charge)
- Efficient process guidance through precise amperometric realtime measurement (short response times)
- No disturbance through clouding or coloration thanks to amperometric measuring principle
- Stable zero point
- No disturbance through temperature influence due to integrated temperature compensation
- Reduced dependence from flow and cross sensitivities thanks to diaphragm covered electrodes
- Fast commissioning through short starting time
- Long lifetime thanks to diaphragm-separated electrodes from the process surroundings as well as defined electrochemical conditions through electrolyte
- Easy and cost-saving maintenance through diaphragm cap changing

- Multiple connection possibilities to periphery: via double-conductor to 4-20 mA interface of DULCOMETER® D1C controller, to a measurement transducer type DULCOMETER® DMT for forwarding the signal to a programmable logic controller, or integration in Bus systems (PROFIBUS®, CANopen-Bus)

- Short delivery times enable near-term replacement
- Special adjustments and own label for OEM partners

For the sensor selection guide that will help you to choose the right sensor for your application as well as for detailed information on the sensors please see the download section.

URL: http://www.prominent.com/desktopdefault.aspx/tabid-137/94_read-1364/

For All Measured Variables - in All Languages

Single-Channel Measuring and Control Instrument DULCOMETER® Type D1Cb



The DULCOMETER® Type D1Cb is suitable for applications in drinking water, waste water and cooling water treatment. The single-channel measuring and control unit D1Cb is equipped for all important measured variables for basic applications in water treatment and with an error and calibration log book. A safe, comfortable, and clear operation is guaranteed thanks to the large, illuminated graphic display, full text operating menu in 15 operating languages, and pH sensor monitoring.

- Always the appropriate controller: Both sensor connection types mA and mV in one single unit
- Subsequent activation of functions via activation key
- For connection type standard signal: all other measured variables such as chlorine, bromine, chlorine dioxide, chlorite etc. and pH, ORP/Redox and conductivity via mA
- For mV: switching capability between pH and ORP/Redox
- Plain text user guidance in 15 operating languages in the controller
- Control of 2 metering pumps via pulse frequency
- 2 power relays for solenoid valve control, limit value monitoring or timer function
- Large, illuminated graphic display with bargraph
- 1 analogue output 0/4 ... 20 mA (measured value/controller output)
- Extended range voltage supply: 90-253 V, 50/60 Hz
- Automatic buffer recognition for pH
- pH sensor monitoring
- Calibration timer, calibration log book
- Operating hours counter
- Metering time monitoring with deactivation of the controller output if time is exceeded



For further information, please visit:
www.prominent.com/d1cb

Single-Channel Measuring and Control Unit DULCOMETER® Type D1Cb

Application focuses

- Drinking water treatment
- Waste water treatment
- Cooling water treatment
- Boiler feed water treatment
- Neutralisation

Technical Data

Measuring ranges	Type of connection mV: pH 0.00 ... 14.00 ORP - 1,000 ... +1,000 mV
Measuring input pH	Type of connection mA: Chlorine, chlorine dioxide, chlorite, bromine, ozone, hydrogen peroxide, peracetic acid, dissolved oxygen, pH, ORP/Redox, conductivity, temperature
Measuring input mA	input resistance > 0.5 x 10 ¹² Ω
Correction variable	0/4 ... 20 mA standard signal input
Correction range temp.	Temperature via Pt 100/Pt1000
Disturbance	0 ... 100 °C
Control modes	Frequency
Controlling	P/PID controlling
Signal current output	two-way control
Adjustable output	1 x 0/4-20 mA galvanically isolated
Analogue input	2 pulse frequency outputs for metering pump control
Alarm relay	2 relays (solenoid valve control, limit value or pulse length)
Electrical connection	1 x 0/4 ... 20 mA
Ambient temperature	250 V ~3 A, 700 VA contact type, changeover
System of protection	90 - 253 V, 50/60 Hz
Dimensions	Wall mounted: -5 ... 50 °C
	Wall mounted: IP 65
	Wall mounted: 189 x 200 x 76 mm (WxHxD)

A complete measuring station comprises the following:

- Measuring transducer / controller D1Cb
- Sensor
- Fitting: DGMa..., DLG III..., immersion assembly
- Temperature sensor Pt 100 or Pt 1000
- Sensor cable
- Buffer solution
- Photometer

Experts in Chem-Feed and Water Treatment

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