

## 5.1 DULCOMETER® Measurement and Control Technology

### 5.1.1 DULCOMETER® D1C Series Controller

#### Microprocessor-based controller

The measured variables are:

- pH/value
- Conductivity
- Redox potential
- Chlorine dioxide
- Temperature
- Ozone
- Chlorine concentration
- Oxygen
- mA signal

Various expansion stages permit process adaptation to various measurement, control and metering requirements.

- Large, clear display of measured value
- Easy operation and clear prompting of settings by texts in the display
- Menu-assisted calibration of measuring probes
- Activation of ProMinent® metering pumps, solenoid valves or actuators
- Monitoring of limit values
- Connection of measuring probes also via converter with disturbance free mA signal
- Connection facility for recording measured value by mA signal

#### Micro-processor-based controller for Wall mounting

The most important data:

**Standard format:** 189 x 200 x 76 mm (W x H x D)

**Enclosure rating:** IP65

#### Accessories

Kit to convert Wall mounting D1C & D2C into Panel mount

#### Part No.

792908



# 5.1 DULCOMETER® Measurement and Control Technology

## 5.1.2 Identity Code & Pricing for DULCOMETER® D1Cb Series Controller

### D1Cb DULCOMETER® D1C series b controller

<b>Installation</b>	
<b>W</b>	Wall mounting
<b>Version</b>	
<b>00</b>	with ProMinent logo
<b>Power Supply</b>	
<b>6</b>	90 - 253 V      48/63 Hz
<b>Approvals</b>	
<b>01</b>	CE Mark
<b>Hardware Expansion 1</b>	
<b>0</b>	None
<b>Hardware Expansion 2</b>	
<b>0</b>	None
<b>1</b>	RC protection of the 2 power relays by using a inductive load (motor driven pump) together with power Relay 'M' or 'G'
<b>External Connection</b>	
<b>0</b>	None
<b>Software Preset</b>	
<b>V</b>	Software preset
<b>Measured variables</b>	
<b>A</b>	PES (peracetic acid)
<b>B</b>	Bromine 0-10 ppm
<b>C</b>	Chlorine 0-0.5/2/5/10/20/50/100 ppm
<b>D</b>	Chlorine dioxide 0-0.5/2/10/20 ppm
<b>F</b>	Fluoride
<b>L</b>	Conductivity (check probe compatibility)
<b>H</b>	Hydrogen Peroxide H2O2
<b>P</b>	pH 0-14
<b>R</b>	Redox -1000...+1000 mV
<b>S</b>	Standard signal 0/4-20 mA
<b>T</b>	Temperature 0-100° C, 32-212° F
<b>X</b>	Dissolved Oxygen O <sub>2</sub>
<b>Z</b>	Ozone 0-2 ppm O <sub>3</sub>
<b>Connection of measured variable</b>	
<b>1</b>	Standard signal /04-20 mA terminal (signal converters are necessary for controllers with standard signal 0/4-20mA measured variable connection Terminal mV for P or R)
<b>Correction variable</b>	
<b>0</b>	None
<b>2</b>	Temperature via Pt 100 (via terminal ) for pH
<b>4</b>	Manual temperature compensation for pH
<b>Control input</b>	
<b>0</b>	None
<b>1</b>	Pause
<b>Standard signal output</b>	
<b>0</b>	None
<b>1</b>	Standard signal 0/4-20 mA configurable output
<b>Power relay</b>	
<b>G</b>	Alarm, 2 limit relays or 2 timer
<b>M</b>	Alarm, 2 solenoid valve relays or 2 timer
<b>Pump control</b>	
<b>0</b>	None
<b>2</b>	Two pumps via pulse frequency
<b>Control characteristic</b>	
<b>0</b>	None
<b>1</b>	P control
<b>2</b>	PID control
<b>Language</b>	
<b>EN</b>	English

**Example shown:**  
D1Cb for Chlorine with pause and 4-20 mA output.

D1Cb W 00 6 01 0 0 0 0 V C 1 0 1 1 G 0 0 EN

