Frequently Asked Questions Controllers

What variables can be measured or controlled with ProMinent equipment?

We can measure or control pH, Redox, Free or Total Chlorine, Chlorine Dioxide, Conductivity, Ozone, Peracetic Acid, Hydrogen Peroxide and Dissolved Oxygen.

Can you explain what the different options are using the Ident-code for the D1C controller?

The Identcode for a D1C has 13 parameters that can be specified. The first parameter is the type of mounting such as wall or panel mount. Then the operating Voltage must be selected. The measured variable is the parameter being measured such as pH, chlorine, Redox … The next selection is the connection of measured variable, which selects how the sensor is wired, such as an SN6 connector. The correction variable selects whether there is pH or temperature correction. The next variable is feed forward capability. This signal can be used for metering proportional to the flow rate. The control input allows control by contact closure. The signal output function can be set up as measured, controlled or correction variable. The power control variable pertains to the alarm functions and how and what they control. The pump control option is set up for whether pumps will be controlled. The control characteristic sets the pump up for proportional control band or the more sophisticated PID control. The interface is not used at this time. The last variable allows for the selection of the language.

When programming the D1C, what options can I enable or disable?

The D1C controller can be set up for a complete operating menu or a reduced menu. The reduced operating menu permits operation of the most important parameters, but will not allow the operator to change system parameters that are normally set up once, during initial installation. The complete operating menu allows all parameters to be changed.

What is feed forward control?

This signal can be used for metering proportional to the flow rate.

What option is required on controllers when you want to connect to a chart recorder?

The controller must have the signal output option for measured value for recording or two mA outputs.

What do I need to order with a D1C?

Chlorine	pH	Redox
D1C Controller	D1C Controller	D1C Controller
Power cord	Power cord	Power cord
Chlorine sensor	pH sensor	RH sensor
25 mm DGMA	13.5 mm DGMA	13.5 mm DGMA
2-wire cable	2XSN6 cable or pH transducer/2-wire cable	2XSN6 cable or pH transducer/2-wire cable
Mounting set for sensor	pH buffers	Redox standard
Optional (free Chlorine)	**Optional (temp comp.)**	**Optional (temp comp.)**
pH sensor for comp. (free)	temp sensor for comp.	temp sensor for comp.
pH transducer/2-wire cable	SN6 cable w/extension wire	SN6 cable w/extension wire
13.5 mm DGMA	Temp. transducer if long cable	Temp. transducer if long cable
pH buffers	2-wire cable for transducer	2-wire cable for transducer
extra 2 wire cable	extra 2 wire cable	extra 2 wire cable
	13.5 mm DGMA	13.5 mm DGMA

What do I need to order with a D2C?

pH/Chlorine	pH/ORP	pH/pH
D2C controller	D2C controller	D2C controller
Power cord	Power cord	Power cord
pH sensor	pH sensor	2x pH sensors
Chlorine sensor	ORP sensor	pH transducer
2-wire cable	ORP transducer	2-wire cable
2xSN6 connector or pH transducer/2-wire cable	2xSN6 connector or pH transducer/2-wire cable	2-SN6 connector or pH transducer/2-wire cable
pH buffers	2-wire cable	pH buffers
25mm DGMA	pH buffers	2x13.5 mm DGMAs
Mounting set for sensor	ORP standard	
13.5 mm DGMA	2x13.5 mm DGMAs	
Optional	**Optional**	**Optional**
extra 2 wire cable	extra 2 wire cable	extra 2 wire cable
Temp. sensor for pH temp. comp.	Temp. sensor for pH temp. comp.	Temp. sensor for pH temp. comp.
13.5 mm DGMA	13.5 mm DGMA	13.5 mm DGMA
SN6 cable w/extension wire	SN6 cable w/extension wire	SN6 cable w/extension wire
Temp. transducer if long cable	Temp. transducer if long cable	Temp. transducer if long cable
2-wire cable for transducer	2-wire cable for transducer	2-wire cable for transducer

I am working with a ProMinent D1C controller and controlling pH. I keep getting a check sensor error. What is causing this problem?

The problem may be that the checkout time is set too low. This feature is used to detect a defective sensor: if the value is set to 1 second, the processor looks for changes on the sensor readings; if the display does not change during this interval, a check sensor will result. This feature can be set from 1 to 9999 seconds or turned off in the measure value mode of the controller. Turn the checkout time to off or set the measured time to at least 60 seconds, so the sensor is checked once a minute instead of once every second.

Where are conductivity controllers most commonly used?

Conductivity controllers are used in industries including, paper, pharmaceutical, plating, electronics, breweries, power production, and plating. Two very popular applications are bottle washing and cooling towers.

What type of controller is the Dulcomarin?

The Dulcomarin controller is designed exclusively for swimming pools. The basic unit has 2 measuring inputs for measuring and controlling pH and chlorine or pH and redox potential. Two ProMinent pumps such as beta's or gamma's can be connected to the Dulcomarin to add chemicals for a maintenance free pool.