

Technical Information:

ProMinent Fluid Controls Ltd.

ProMinent

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Subject: Concentration Input Option
Product: Identcode Option
Category: GALA Pumps
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A new option is now available for the GALA pump. This option is referred to as “ **Concentration Input** “. This option will allow you to set the pump for volume - proportional metering tasks. In order to use this option you first must do a calibration and enter the value into the pump.

In **Manual** mode, the pump can be set for a Volume Concentration, for this you enter a water flow rate in cu.m per hour into the pump and based on the pump calibration you can see and set the PPM addition rate.

e.g. Water flow rate 100 cu.m/hr pump capacity set at 1 litre / hr you get the display of 10 PPM. The 10 PPM can be adjusted by using the arrow push buttons and stroke length knob. The calibration warning will come on if you adjust the stroke length greater than +/- 10% of the calibrated position. For manual operation, there needs to be constant water flow and an interlock for flow / no flow for best accuracy.

In **Contact** mode, the pump can be set for a mass concentration. To do this you need to enter into the pump the contact spacing (K Factor of the water meter), the % concentration of chemical and the density of the chemical. Once this is done, you can easily adjust the PPM dosage on the pump keypad using the arrow push buttons.

e.g. Water meter K factor, K = 1, **001.0**
12% Sodium Hypochlorite , **012.0**
Density **1.168** kg/l

Based on the PPM value you set, the pump will calculate the necessary impulse factor based on the incoming pulses and data entered.

This new option is selected in the identity code as “ **Control Version** ”.

7 = Manual + Contact + Pulse Control + Concentration Input

8 = Manual + Contact + Pulse Control + Analog + Concentration Input

The combination of this new option with the options process timer and / or Profibus interface is not possible for technical reasons.

More details of this option is available with the supplement to the Operating Instructions titled “ **For ProMinent Gamma L With Concentration Input** ” which is now on the Intranet with the Product Manuals.