

FROTH

It's nice on a Cappuccino but horrible in the Receiving Can of a Dairy Shed!

With the help and advice of a lot of people in the Dairy Industry I've developed what I believe to be the worlds first ever software based method of controlling froth build up in the receiving can by controlling the speed of the milk pump in a specific manner.

I've called this method 'Froth Fighter' and last month I filed a **Patent** application on it's operating principle.

This is how it works: Please remember though that it is **PATENT PENDING** and so can not be lawfully copied.

When the level of milk in the receiving can starts to rise the Sema Controller starts to accelerate the milk pump and it keeps accelerating it until the level of milk in the receiving can starts to fall, when this happens the Sema controller **holds the speed of the pump at whatever speed it reached before the milk level started to fall.**

This simple method automatically sets the speed of the milk pump just slightly above the speed that is necessary to balance the amount of milk that is flowing into the can and so creates perfect conditions for a centrifugal pump to be able to pump a mixture of milk and froth and thus keep the receiving can clear of froth build-up.

At the moment I have seven test installations in the North Island, all of these had from moderate to severe frothing issues before I installed the Froth Fighter software and, without exception, Froth Fighter has controlled the frothing problem in all of them.

Froth Fighter is a selectable operating mode in all of my new milk pump controllers, for more information please follow this link to my website <http://www.sema.co.nz/28601.html>



New Stuff.

You can now order a Sema MPC (Milk Pump Controller) with an optional 2 channel remote control. At the time of writing channel 'A' turns the pump on and off and channel 'B' activates the remote manual pump out. Since showing the remote to a few people I've had requests for other functions and so I intend to make the remote functions programmable through the controllers function menu. If anybody has anything specific that they would like the two channels to do then please let me know so that I can include it in the available options. The installation of the remote adds a small amount to the cost of the controller (The exact amount will be included in the latest price list but it's quite reasonable) please note though that I have to build in the remote option when I construct the controller so, if you want the remote, be sure to specify it when you order the controller.



I now import my own peristaltic pumps and plan to make an automated acid/alkali measuring system similar to one produced by 'The Dairy Shed' some years ago...watch this space!



More on the next page

More New Stuff.

Since the last news letter came out in January I've been busy rounding out my product range for the Dairy and Water Industries.

I now have the following product offerings. Please note that, although all of these products have been developed, there may be a slight (and I do mean slight) delay in delivering some of them until I bring my stocks of components up to the required levels.

- ◆ Milk pump controllers in single and three phase up to 2.2kw in IP66 together with associated float level probes and glands.
- ◆ Water pump controllers up to 250kw (No, it's not a typo!) Note that the IP rating varies with the size of drive, models up to 7.5kw are IP66 bigger sizes are IP55 up to 160Kw and above that they're IP40.
- ◆ Vacuum pump controllers up to 22kw (although there is no reason why I can't make bigger ones)

Every single one of these products uses the Sema micro-controller. This means that even the largest water pump controller is as easy to set up and run as the smallest milk pump controller.

Currently I'm working on a large Digital Vacuum Gauge for use in Dairy Sheds and the detergent measuring system mentioned on the previous page.

If you have a requirement or see a need for a product which I don't currently make please let me know. I'm only too happy to create new products or to modify my existing ones.

If you would like more information please don't hesitate to contact me or visit the website. www.sema.co.nz

All the best,

Maurice

*Maurice Coates
Owner and Technical Director
Sema Ltd.
Phone +64 9 3580800
Fax +64 9 8010031
Mobile +64 27 9396240
P.O. Box 374
Pukekohe 2340
New Zealand
www.sema.co.nz
maurice.coates@sema.co.nz*

