

The Watermark

The Newsletter From

Automated Water & Effluent Ltd

Autum 2011

NEW RED DOSING PUMPS

Automated Water & Effluent Ltd have been supplying dosing pumps since the mid 1980s. We have branded the pumps as RDP red dosing pumps which ofcourse are moulded in our company colour of bright red.

We are delighted to announce some new models to our range of RDP red dosing pumps which offer a new fresh approach to dosing. One of the irri atations with electronic dosing pumps for many years has been the problem of mains supply, most customers are happy with a 230 VAC supply to the pump. A small proportion of customers demand a 110 VAC supply to suit their site conditions. We never know which models will be requested as 110 VAC supply.

Now we have the answer a RDP red dosing pump with a switch mode power supply which will operate of a supply of 100 to 240 VAC 50/60 Hz. So our standard stock red dosing pumps will work virtually anywhere in the world. To make stocking even easier the new red pumps will mount either on a flat vertical surface IE a wall or on a flat horizontal surface like a dosing tank top with the optional mounting bracket. So for our



customer who stock our RDP red dosing pumps or carry spare pumps in their stores as stock items life just got a whole lot easier one pump for surface or tank top mounting and 110 or 230 VAC supply.

The new model AT-AM series comes as 4 different models AT1-AM, AT2-AM, AT3-AM and you guessed it AT4-AM The AT-AM series of red dosing pumps cover dosing outputs from 0 - 1.0 L/Hr against 20 bar through to 0 - 60.0 L/Hr.

The AT-AM series of red dosing pumps features selectable control for manual or auto output control from a standard 4 - 20 mA control signal. Or external pacing control from a contacting head water meter for flow proportional dosing or a PFM output from our P7685 pH controller for proportional pH control. There is a low level float switch input which can be used as either a standby / run signal or to stop the red dosing pump on low chemical level. If you need a data sheet on any of the red dosing pumps contact Vera Young at AWE.



We are Exhibiting Again this time At The Surface World Exhibition 2011 The National Exhibition Centre Birmingham

We are pleased to announce Automated Water & Effluent Limited will be exhibiting at the Surface World Exhibition at the National Exhibition Centre, Birmingham from Tuesday November 1st through to Thursday November 3th.

If you need tickets please contact Mrs.

Vera Young by telephone or e-mail vyoung@awe-ltd.co.uk.

We will be exhibiting items from our range of instrumentation, dosing pumps, high speed and geared mixers.

New on the stand will be the AT-AM series of red dosing pump come and see the new pumps Be among the first to

see the new MO5-pH surface mounting pH or Redox controller with optional built in data logger at the Surface World Exhibition November 1st, 2nd & 3rd 2012.

Technical Tips

Level Control

Liquid level control using dip type contacting electrodes is a product we have manufactured for many years. It is one of our simplest and lowest cost products but one which is least understood. So to follow are some of the common applications the simplest is for a high alarm.

A vessel is fitted with two electrodes a long one and one at the level the alarm is required so as the vessel fills the conducting liquid touched the shortest electrode and completes the circuit the level controller relay operates.

The disadvantage with this is a liquid with foam on top can cause the level controller to operate before the liquid touches the electrode. So our ALC1101 level controller is fitted with an adjustable sensitivity control so the level controller can be calibrated to ignore the foam and operate on the more conductive liquid. The other problem area is vessels with a mixer or where product is immersed into the vessel such as plating tanks where waves can occur causing the relay to make and brake or chatter. This can be overcome by fitting a third electrode so the first contact is made the relay latches in and does not drop out until contact is broken with the lower or middle electrode.

This function is also used for emptying a vessel where contact with the shortest electrode starts a pump and breaking contact with the middle or lower electrode stop the pump until the high level is achieved again these electrodes can be several feet apart if required.

So how do we use a level controller for a low level alarm? Simple our ALC1101 liquid level controller is fitted with a function switch which reverses the

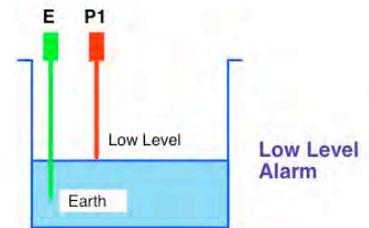
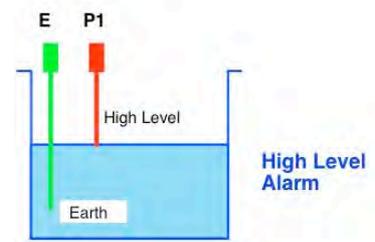
operation of the level controller, so the relay operates when there is no conductivity.

Install the longest electrode as the earth electrode and the the second electrode at the required low level, when the liquid level drops and loses contact between the two electrodes the level controller operates. By adding a third electrode at a higher level the level controller will not reset until contact is made with this electrode, this configuration is used for pumping in or filling a vessel. By using three ALC1101 level controllers it is possible to control a pump and have high and low level alarms and with four ALC 1101 level controllers a duty and assist pumps can be controlled at different levels with both high and low alarms. we can design and build control panels for pump control using out conductivity level controllers or any other method of level control for single or multiply pump control.

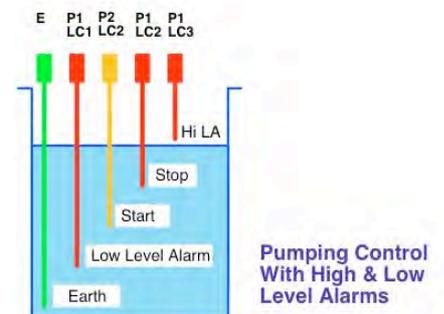
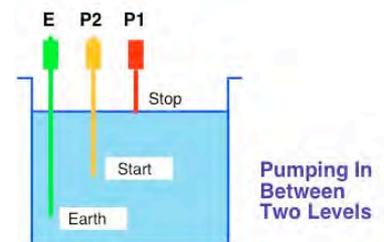
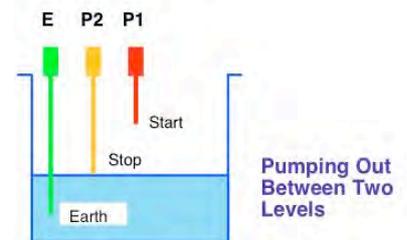


Typical Installations

Level Alarm



Level Control



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