

The Watermark

The Newsletter From

Automated Water & Effluent Ltd

Winter 2013/14

AMPEREHOURS METERS

We are pleased to say many of our customers involved in metal finishing are busy and investing in new plant and equipment which is good for the U.K. economy and manufacturing in general.

Keeping the correct solution up to strength in a plating vessel is always a chore for the operator so we have a solution.

Our Model AH555 is an amperehour meter used to measure the current flowing from the rectifiers to a plating vessel.

The usual method is to fit a simple shunt into the copper bus bar, which has some resistance. This causes a small volt drop across the resistance which is proportional to the current flow. The volt drop across the shunt can be measured usually 0-60mV but

the instrument is user selectable 50 – 100 mV. This is connected to the input of the amperehour and calibrated as a current flow. The AH meter totalises the current flow and when a user preset amount of current has flowed i.e. 2000 amp hours a timer of 0-99 seconds which is user adjustable is started which provides an output to run one of our red dosing pumps to add the required amount of plating solution to keep the plating tank at the optimum level.

There is a relationship between the areas being plated; the current flow and the volume of chemical reagent consumed which requires to be replenished.

Your chemical supplier will be able to advise you of these parts to suit the solution in use.



We are able to supply a Polypropylene skid mounted unit with a bunded area to hold 2 x 25 litre chemical container, one for use and a spare one fitted with a red dosing pump with suction lance assembly to fit your 25 litre drum. The unit could be built as a dual system with 2 AH meters, two pumps pumping from the two drums.

2014 CATALOGUE NOW OUT

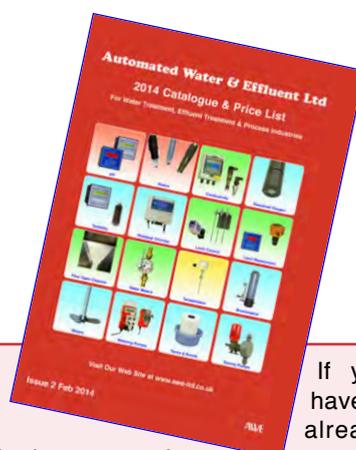
We are pleased to announce our 2014 full catalogue.

The 2014 catalogue features our new touch screen cooling water controllers with a graphic display where the customer simply touches the dosing pump or bleed valve on the controllers displays flow dia to be configured.

The Controller goes straight to the required screen no long scrolling menus to navigate.

The catalogue includes all our traditional products, which includes our red dosing pumps available in electronic mechanical diaphragm and piston pump versions.

Covering a wide range of chemical dosing applications and we have a wide range of accessories to compliment the red dosing pumps.



If you haven't already had a copy of our new catalogue, or would like a colleague to receive one, then please contact Mrs. Vera Young by telephone **01785 254597**, or e-mail vyoung@awe-ltd.co.uk.

Hello & Goodbye



We say goodbye to Neil Fisher who was with us for 18 years starting with us straight from collage. We wish Neil well in his new position in a very different industry. The hello is to David Mauger who started with us in October David brings a different skill to our company and we wish David a long and successful time with us.

Technical Tips

Feed Verification

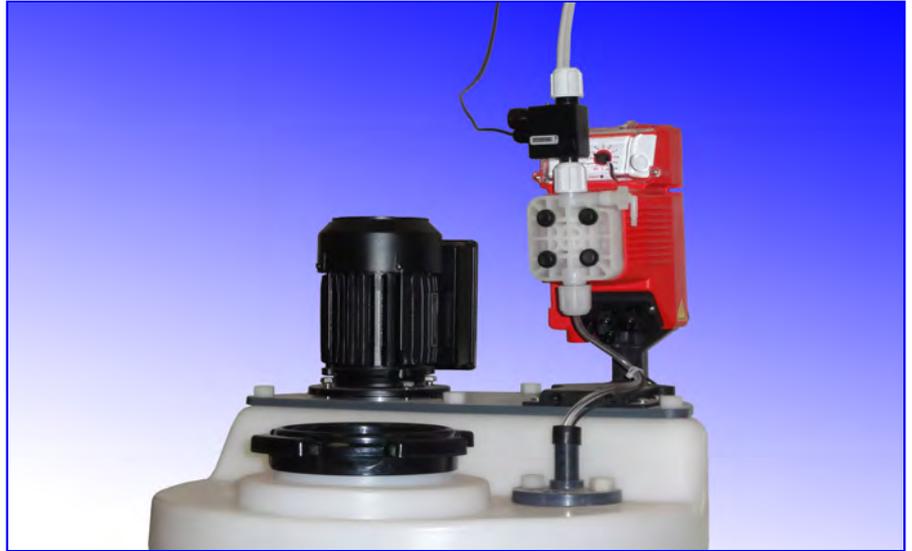
As we supply a lot of our red dosing pumps for a wide variety of dosing applications.

We are often asked if we can provide proof of the volume of chemical, which can be dosed into a system, popular requests are for feed verification of biocides being dosed into evaporative cooling towers to comply with the current regulation of L8.

Addition of chemical to metal finishing baths used in the treatment of parts for the aerospace industry, precious metal plating of electrical connectors to ensure sufficient material has been added to the plating vat, dosing of additives in the food industry and many more applications.

Any of our wide range of AT series of electronic red dosing pumps can be fitted with a flow sensor which provides a signal each time the pump operates detecting the chemical which has flowed into your system.

The signal from the flow sensor is connected to the input of our microprocessor based feed verification



system measuring the flow and totalise the amount chemical reagent flow in litres. We are able to offer either a resettable counter so a batch volume can be checked and the counter reset ready for the next batch.

A fixed or non-resettable counter so the total volume added can be displayed without the operator being able to reset

the total volume.

Totalisation from up to four pumps in one, instrument can be supplied with various the options such as the option to data log the totals to an S.D. card for down loading later.

As the programming is carried out by ourselves, we will try to accommodate any reasonable request you may have.

DOUBLE CONFINEMENT FOR CHEMICAL DOSING.



Many of our customers use our dosing pumps use to dose small accurate volumes of reagent often concentrated acid and alkalis.

We have a double confinement system to increase the safety of our dosing system and to protect personnel in the event of a chemical leak. Our red dosing

pumps either electronic or motor driven are now available supplied in custom made polypropylene housings.

The housing are fitted with a bolt on clear PVC front viewing panel and the dosing hose is run inside a second pipe of braided PVC to provide mechanical protection. The braided hose is run back to the housing so any leak in the dosing hose is drained back into the corrosion resistance polypropylene housing.

A larger diameter braided hose maybe be fitted over the injection fitting or the injection fitting can be installed inside a polycarbonate housing at the dosing point.

For flooded suction installations the pump has an isolating valve allowing maintenance to be carried out on any pump without taking the whole system out of service.

Automated Water & Effluent Ltd

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