

# The Watermark

The Newsletter From

**Automated Water & Effluent Ltd**

Summer 2012

## MO5-CL CHLORINE CONTROLLER

Many of our customers think about us for their waste water measurement, control and dosing but forget we offer much more. So please think about us for process control and remember us when you need a residual chlorine or chlorine dioxide controller. Our model MO5-CL is a microprocessor based instrument with a direct readout in ppm CL<sub>2</sub> (or CLO<sub>2</sub> if used with the CLO<sub>2</sub> electrode) The MO5-CL has 2 control relays one alarm relay and two isolated 4 - 20 mA current outputs one can be assigned to be a PFM output to proportionally control one of our RDP (red dosing pumps) with external pacing input control. So the greater the deviation from the set point the faster the pump runs. Mains power supply is by a switch mode power supply so the mains supply is any where between 100 and 240VAC 50/60 Hz.

The MO5-CL is supplied in two versions to work with the traditional

open amperometric cell with copper and platinum electrodes, which are kept clean by glass balls, which spin about inside the cell to clean the electrodes. So beware when servicing residual cells not to loose your glass balls if you do we can help as we usually have some in stock.

We also have a closed amperometric sensor residual chlorine cell and a chlorine dioxide sensor where the electrodes are mounted inside the cell in a filling solution with a semipermeable membrane. These sensors offer a greater resistance to fouling than the open cells and are available for chlorine dioxide.



*The MO5-CL can be supplied ready assembled on a back plate with the chlorine cell and a filtre for easy on site installation.*

*As our back plates are desinged and built in house we can supply any options you require.*

## COST EFFECTIVE DOSING PUMPS

The HY series of RDP (red dosing pumps) for surface mounting where introduced about 12 months ago. We are delighted with the performance and simplicity of operation our basic stock model is the model HY-BL which features a low level input from an optional float switch and a selector switch for either 0 -100% or 0-20% of the rated output the benefit been greater accuracy at lower outputs.

Model HY-BC has an external pacing input for for basic control from a contacting head water meter.

Model HY-MA has control from a 4-20 mA signal. All models are supplied with foot valve hose and an injection fitting the dosing hose is 4 x 6 mm LDPE so retro fitting an old pump is easy.

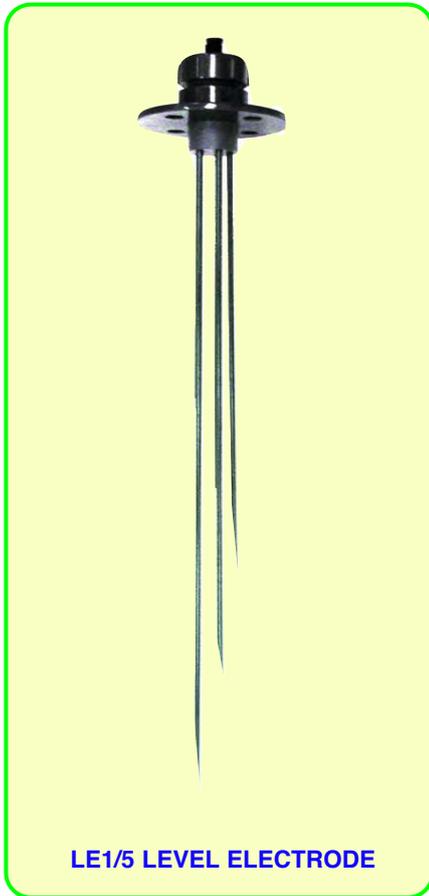


If you need data sheets or hand books on the MO5-CL Residual chlorine controller or HY series of RDP dosing pumps then please contact Mrs. Vera Young by telephone **01785 254597**. or e-mail [vyoung@awe-ltd.co.uk](mailto:vyoung@awe-ltd.co.uk).

# Technical Tips

## Level Electrodes

Following on from our technical tip in the spring issue about level controls in this issue we cover more level electrodes.

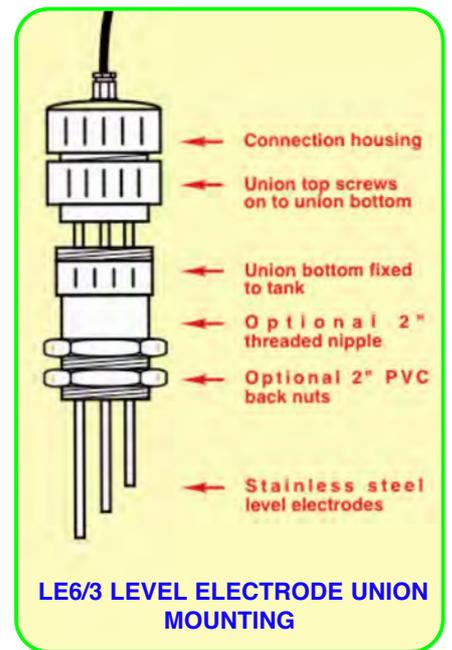
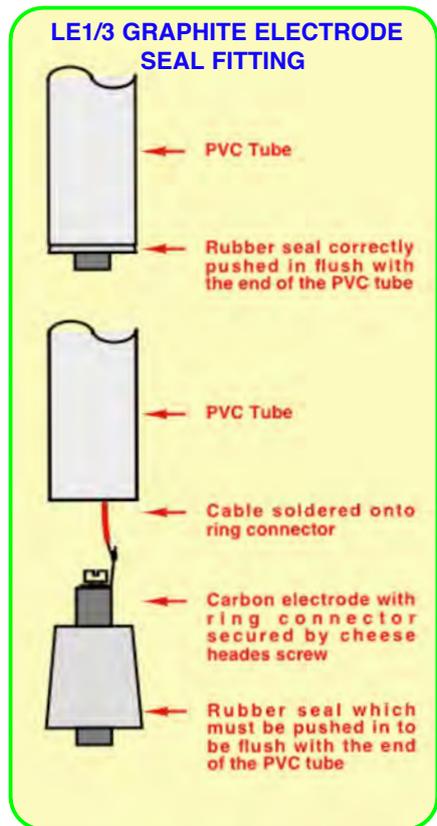


LE1/5 LEVEL ELECTRODE

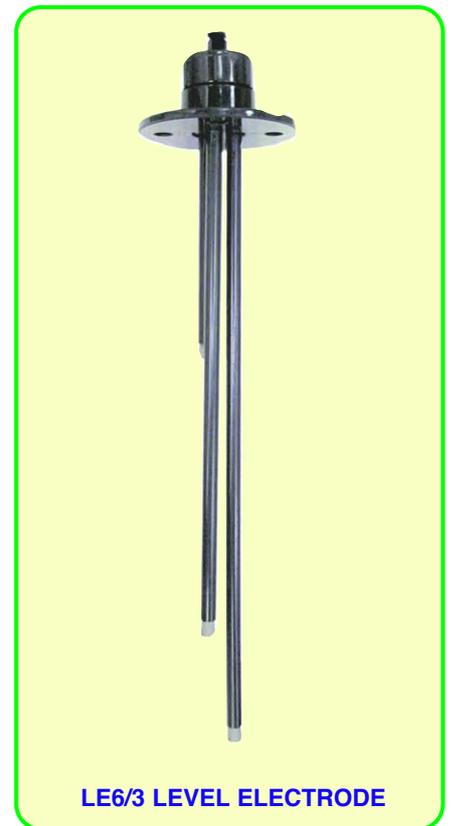
For deeper clean water applications we are able to supply our LE1 series level probe holder which can hold up to 5 electrodes 1/4" Ø and up to 3 metres long. We usually have in stock EVA (plastic) coated level electrodes 3 metres long which can be cut to the desired length. The LE1-3 has three electrodes and the LE1-5 has 5 electrodes. The usual mounting is by a 2" table DPVC flange we can manufacture the LE1-3U or LE1-5U which has a 2" union so the bottom of the union can be solvent cemented on to a 2" PVC pipe stub or tank connector. If the connection cable is

left long the the union can be unscrewed and the electrode removed without disconnecting the cable simple. For more aggressive solutions where stainless steel electrodes can not be used Our LE6-3 and LE6-5 with 3 or 5 legs 1200mm long which are made with either a 2" table 'D' flange or union LE6-3(5)U and fitted with 1200 mm long PVC legs with a butyl rubber seal and a resin injected graphite electrode which is the connection with the solution.

The graphite electrode can be removed and the PVC leg cut to the desired length this is best achieved with a ringing tool to ensure a level and square finish to the tube end. A little tip is to lubricate the butyl seal with a small amount of dilute washing up liquid to ensure a snug fit inside the PVC tube and flush with the end of the tube the detergent soon washes away.



The LE6 is a very cost effective solution for level alarms in reagent storage vessels.



LE6/3 LEVEL ELECTRODE

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**AWE**