

Maintainer/Replenisher

PROCESS CONTROLS
SYSTEMS

www.ivek.com

The IVEK MAINTAINER is a unique liquid metering system which provides automatic continuous set-point control of process variables in chemical or biological systems. The controller is easily programmed by the user and can be interfaced directly with a process monitor instrument such as pH meter, auto-analyzer, or other electrodes in order to provide process control.

The MAINTAINER system is designed to provide a metering rate that is proportional to the process deviation from a set-point so overshoot is virtually eliminated while process stability is greatly enhanced.

Applications for the MAINTAINER include biological fermentation systems chlorination, electroless plating control, mineral separations, wastewater control, flocculent additions and pH control.

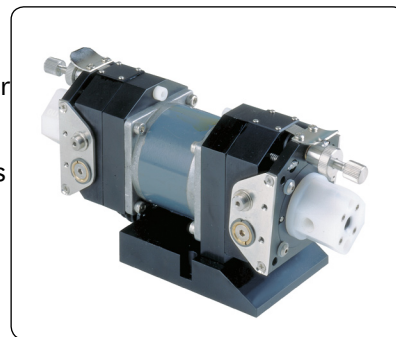
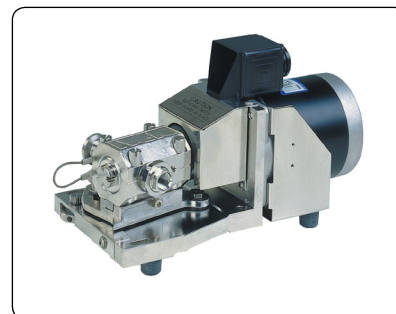
All MAINTAINER systems utilize IVEK's unique valveless, positive displacement ceramic metering modules and stepping motor/base assemblies. The motor/base units can be either HD or Microsense AP modules depending upon the volume of flow required. This system is capable of repeatably delivering fluids at 0.1% c.v. Control functions are switch selectable or set through a front panel digital thumbwheel switch. Direct or inverse proportioning is available along with other options for meeting customer application requirements.

The IVEK REPLENISHER is a digitally programmed and controlled, liquid metering system designed to

provide precise continuous additions of electroplating bath materials as they are depleted. The rate of replenishment is based upon a control signal obtained from the output of an ammeter shunt or process controller. The REPLENISHER is programmed by a digital thumbwheel switch. The units can be scaled for replenishment rates as low as .001ml/ampere-minute up to 9.00ml/ampere-minute and higher, if required. The REPLENISHER allows the user to continuously replace materials as they are being depleted from the plating process to provide consistency, which is not otherwise available. This system offers potential savings in material usage and will minimize rejects.

Repeatability of 0.1% c.v. and excellent reliability combined with maintenance free operation make these systems cost-effective. The REPLENISHER controller is compatible with the IVEK stepping motor HD motor/base module as well as the IVEK Microsense AP. Ceramic positive displacement metering modules are sized depending upon application requirements.

Options include panel mounted electronic readouts to display total ampere hours or ampere minutes. Ceramic modifications and gland ports are available for handling high viscosity or difficult to dispense materials.



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