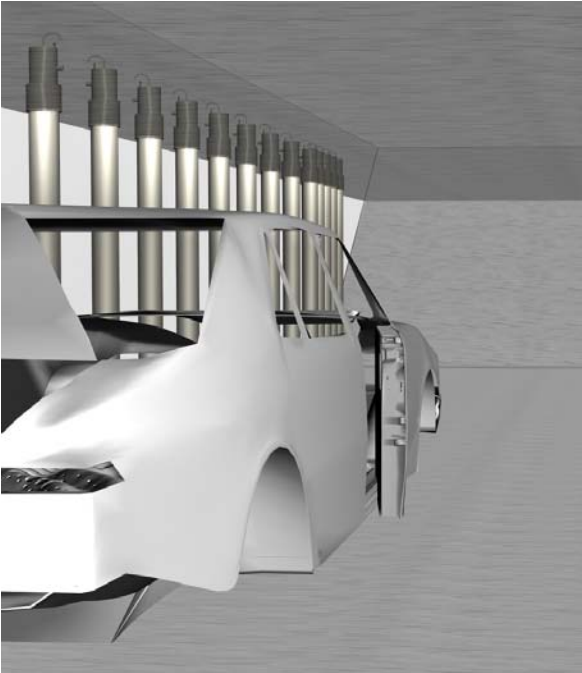


# UFS CORPORATION INSTRUMENTATION PRODUCTS FOR ELECTROCOAT



2011

## Replenishment Paint Feeder System

By measuring amp-hours, the Replenishment Paint Feeder System allows for paint to be added only as required. Because the resulting E-coat film thickness will be more steady, variable costs will be considerably less. Replacement paint is added throughout the day as needed, resulting in additional savings because of reduced manpower.

Complete systems include: Amp-hour controller, one pump for each paint component, pump suction kit, magnetic proximity switch for counting pump cycles, and static mixer.

Piston pumps are recommended because they are more reliable than diaphragm pumps. Whether your paint is delivered in 55 gallon drums or totes there is a complete package available.



Amp-hour  
Controller



Static mixer



Piston Pump with Lid,  
& Lift for use with 55  
gal drums

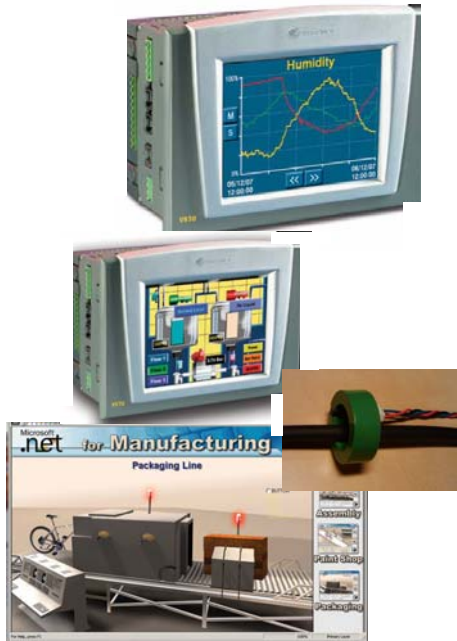
## Anolyte Conductivity Controller



Controller and  
sensor assembly

UFS offers a Myron L digital conductivity controller pre-installed in a metal enclosure. For cathodic e-coat paint systems the electrolyte is called 'anolyte'. For anodic paint systems the fluid is called 'catholyte'. This controller will work with either and has a range of 0-20 milli-Siemens/cm ( same as 0 – 20,000 milli-Mho/cm). It has a set of dry contacts that close on rising conductivity so a DI water valve can be turned on to add water and dilute the conductivity to below its set point.

## New Generation Anode Monitor



This system is designed with the end-user in mind, eliminating the need to visit the E-coat tank to record data from all the anode cell amp meters.

The system includes a Hall Effect electric current sensor for each anode and a PLC for collecting the data. The PLC screen can visualize the data using color codes to show quickly which anodes are out of spec. A remote viewing program allows the PLC data to be to any PC on the company's network. The data can also be better visualized by the use of an optional software package called Iconics Genesis32 software. Iconics is a leader in the field of process monitoring software; and this program even features translation into different languages at the touch of a button.

## Auto Voltage Controller

The Auto Voltage Controller is designed to maintain the desired E-coat paint film thickness for a ware (regardless of the rack density) by making fine adjustments to the voltage. Even if you paint a wide variety of ware, there is plenty of built-in capacity to handle a variety of situations. The controller looks at the incoming current demand and then chooses the a final voltage for the proper E-coat film thickness. Originally developed for use with hoist or indexing E-coat paint systems, it can also be applied to monorail systems too.



Auto voltage controller

## UF Process Monitoring



**TigerMag Flowmeter.** Proper knowledge of actual ED paint flow is important in troubleshooting UF performance. An electromagnetic flowmeter installed in-line before the ultrafilter system will provide consistent day to day readings of paint flow through the Elements. UFS promotes the use of the TigerMag brand of flowmeter in accordance with paint company recommendations.



**Turbidity Sensor.** Can be used to inform the operator if the permeate is contaminated with paint solids.



**Permeate Flow** data is important to collect and analyze as well. With a paddle wheel sensor installed at the output of each UF element, permeate flow data is collected in a micro PLC. This equipment can be retrofitted to any spiral wound UF System.



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