



Fluidic Systems  
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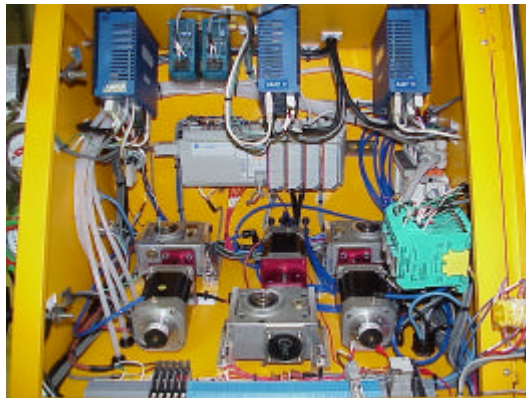
Fluidic PK3S Spray System is a plural component, variable mix ratio, positive displacement metering & mixing units for on demand processing of three component coatings such as BMS 10-11Y, Type I, Class A, Grade E water reducible epoxy primers – Deft 44GN011, 44GN036, 44GN060.

### Advanced Technology

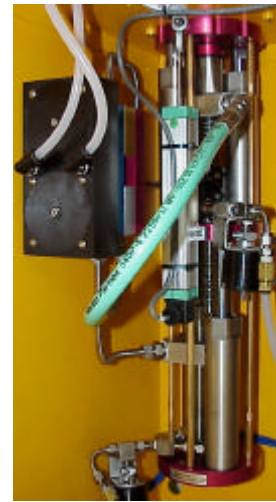
Fluidic's technology is a departure from conventional plural component machines in the marketplace today. This new technology is based on Fluidic's patented LDPs (Linear Displacement Pumps) driven by closed loop DC servo drives with a PLC controller (similar to robotic controls and drives). LDPs do not use pistons, check valves, or gear meters that wear out, clog, or malfunction. This integration of electronic controls and drives with LDP metering is engineered for easy operation, accuracy, reliability, and minimal maintenance.



Fluidic PK3S Spray Unit



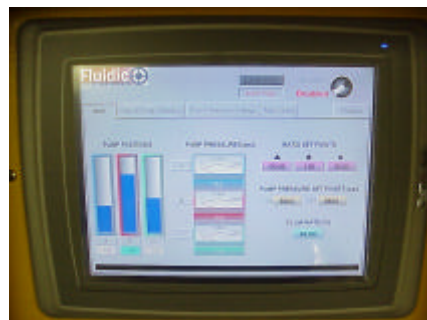
Fluidic Electronic Control Section  
Servo Motors, Drives and PLC Controller



Fluidic Patented LDP  
Patent No. US 6,398,514 B1

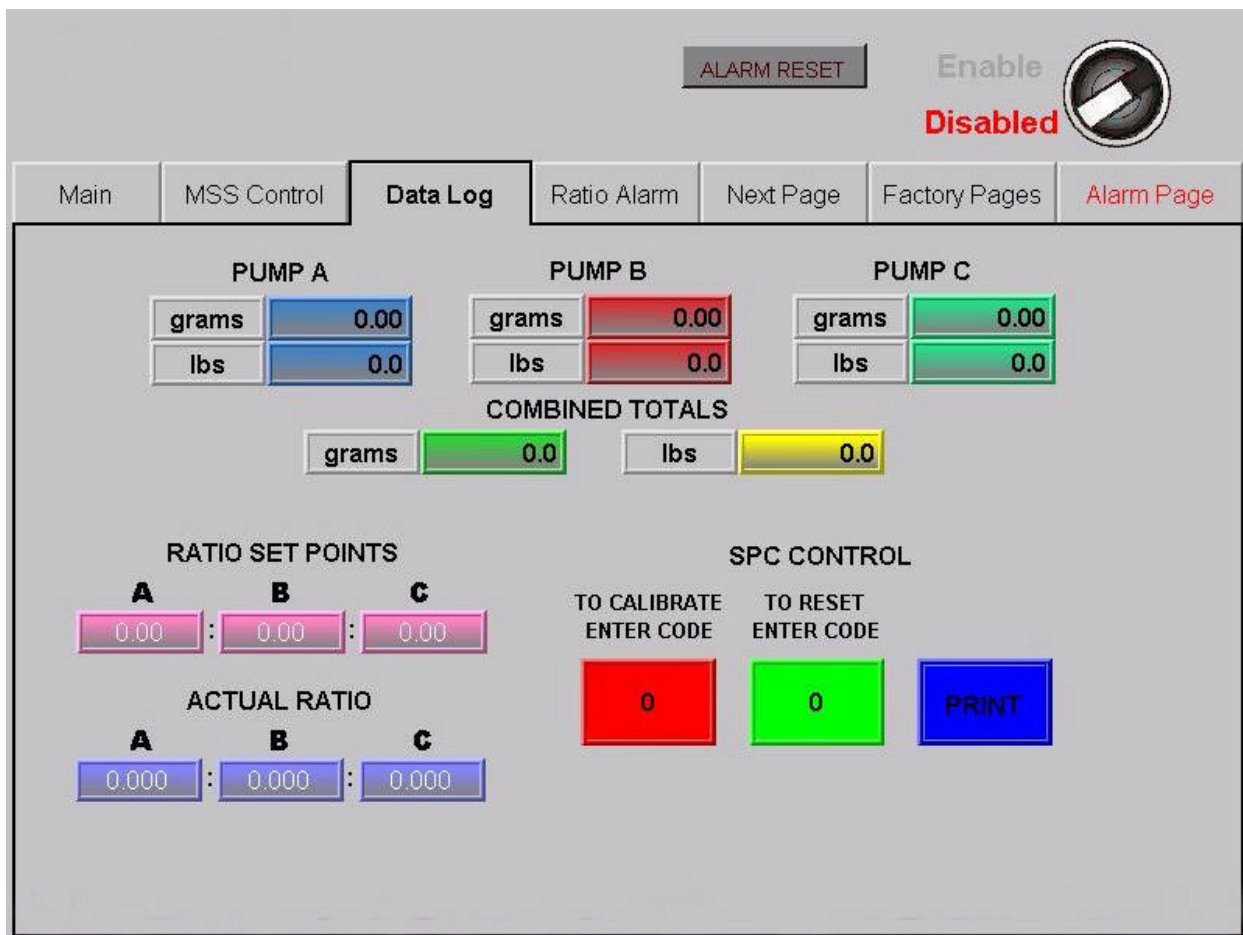
### Touch Screen Controls

Operation is simple using an intuitive OIT Touch Screen control panel. Setting ratios, flow rates, color changes, and flushing is done at the touch of a finger. The 10 inch screen is optional and displays more control functions on fewer screens and the color feature enhances and differentiates the display control functions.



## SPR Displays

SPR (statistical process reporting) monitors, displays, and totalizes the total quantity of material run through all of the metering pumps at user settable intervals. Flush solvent is monitored and reported separately. VOC's are automatically calculated and reported. SPR monitors and displays actual ratios with alarm faults for off ratio conditions. A SPR report can be printed via the printer port or as an option can be automatically uploaded to an Ethernet at settable time intervals and formatted to Excel spreadsheet.



### A/B/C MATERIAL TOTALS

Displays production through puts by weight or volume.

### VOC REPORTING

Calculates the VOC's of material totals by job ID and material batch numbers (not shown)

### SOLVENT REPORTING

Totalizes flush solvent used and calculates VOC's (not shown)

### RATIO MONITORING

Actual mix ratios are recorded within a settable dead-band and reported for the production interval. Off ratio alarm protection is monitored and will shut down the system if an off ratio condition occurs.

### Ratio Check Station

Mix ratios are validated at the Ratio Check Station mounted on the back of the PK3 unit. Wet samples are taken and measured by weight or volume to compare against the set ratios in the PK3 touch screen control panel. The Ratio Check Station may also be used as a Fill Station for spray cups or touch up kits.



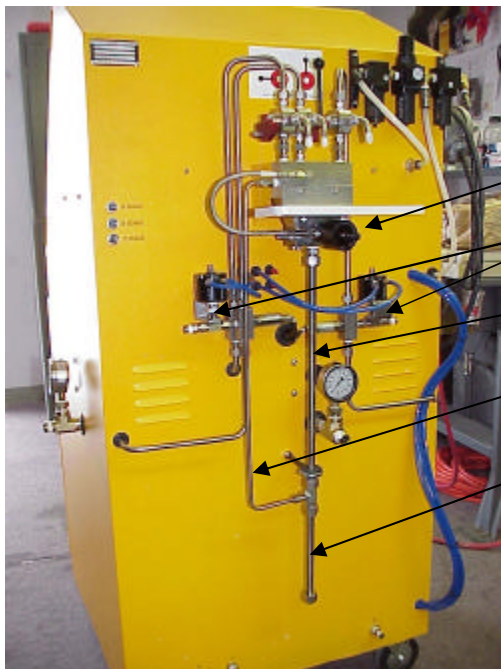
Fluidic PK3S Ratio Check Station



Ratio Check Station used as a Fill Station

### PK3 Waterborne Kit

Designed for three component waterborne coatings. Meters and mixes the A/B components utilizing a catalyst injector valve. The C component (DI water) is secondarily metered and mixed into the premixed A/B components. Includes a dual flush system of water and solvent. The system is 90% water flushable. The flushing sequence is automatic for reliable operation.



Catalyst Injector Valve

Flush Valves

Mix Tube A/B components

Water Transfer Tube

Mix Tube A/B/C components

### Remote Mix Manifold

The standard PK Spray unit has the Mix Manifold mounted on the back of the unit. Remote mounting of the Mix Manifold on the spray booth shortens the spray gun hoses and thereby reduces the amount of catalyzed paint to be flushed. Savings are realized in terms of less material waste and hazardous disposal.