

Sabarinath.M















RansFlow - Overview

Entry level dynamic fluid metering system:

- Offers performance and simplicity in a low cost package
- Meters and mixes multi-component materials (2 or 3k)
- Designed for ease of installation and interface
- Offers closed loop metering and flow control
- Multi-language
- Remote Operator Panel





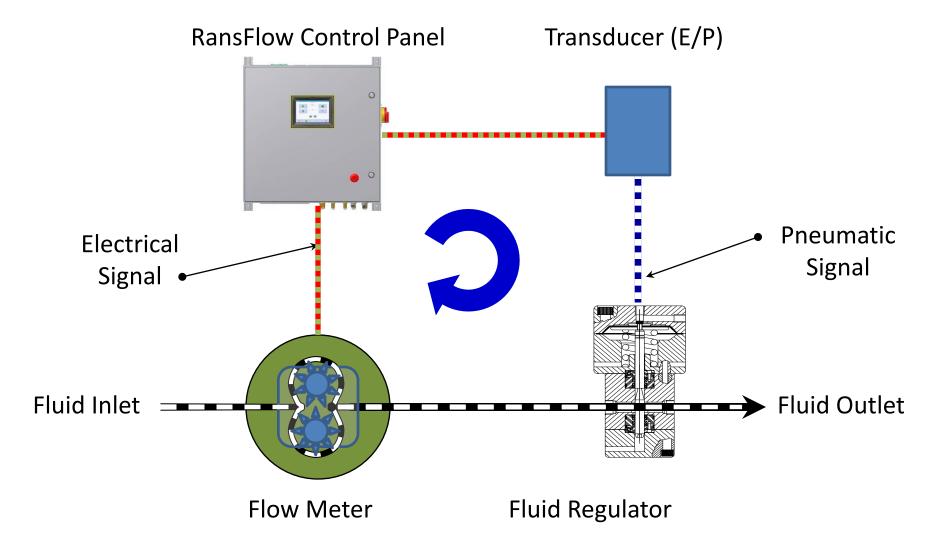








RansFlow — Operation













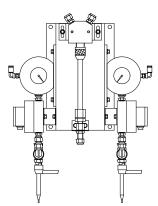


RansFlow — Components

The base system consist of two major components and is designed for ease of installation and use.

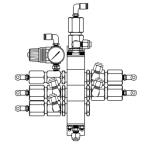
- Control Panel
- Fluid Panel





Optional Features \ Accessories

- CCV style color stacks
- Remote Operator Panel
- Inlet pressure control











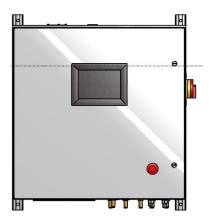






RansFlow

Features & Benefits







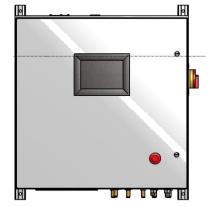


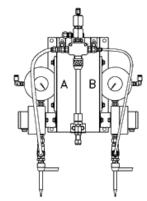




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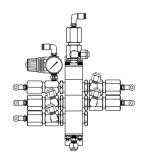
- Control \ Interface Panel
- Fluid Panel





Optional Features \Accessories

- CCV style color stacks
- Remote operator interface
- Inlet pressure control











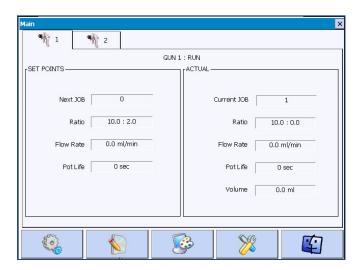






Control Panel

- Size (L x W x H): 610mm x 610mm x 225mm (24" x 24" x 9")
- Operator interface: Touch screen that uses universal graphic icons (6.5" diagonal, full color).
- Programmable flush and fill cycles makes color change quick and easy, can support up to 10 colors and 3 catalyst.













Control Panel

- Houses transducers and solenoid valves.
- Air flow and pressure switches for interface with gun flush box.
- Zenier barriers for intrinsically safe fluid panel installation.
- USB flash for report retrieval and software upgrades \ backups.
- Can store up to 100 jobs (P-sets) per gun.







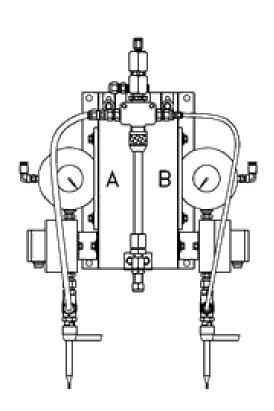






Fluid Panel

- Uses existing fluid panel design.
- RF-1 flow meter available in standard or Fiber optic design.
- Calibration tubes with threeway valves.
- Clear view static mix tube.
- Flushable Y-block assembly.









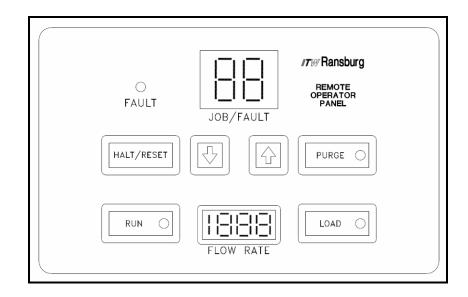






Remote operator interface

- Intrinsically safe for in-booth mounting
- Non-Intrinsically safe version for mounting outside of hazardous area.
- Uses a magnetic stylus for easy function selection







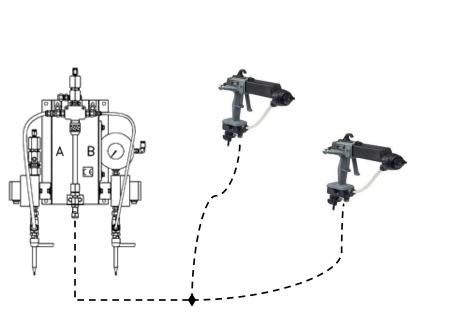




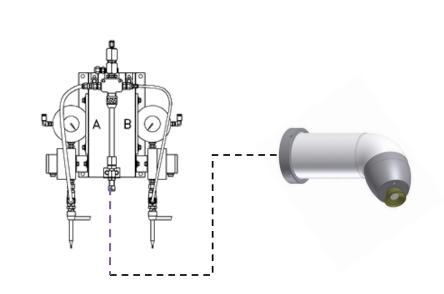




With plural component materials, the RansFlow system can be operated in "Manual" or "Automatic" Mode.



In "Manual Mode", the flow rate of the resin is controlled by the operator(s) and the RansFlow supplies the catalyst to maintain



In "Automatic Mode", a single applicator is supplied and the RansFlow controls the ratio and flow rate to the applicator.













RansFlow Fluid Metering System Specifications:

- Size
 - Main Control Panel L x W x D: 610mm x 610mm x 225mm
 (24" x 24" x 9")
 - Fluid Panel L x W x D: 550mm x 400mm x 300mm(22" x 16" x 12")
- Power Input: 120 VAC @ 2A or 240 VAC @ 1A 50/60
- Auto selecting power supply with resettable internal breaker.
- Flow Capacity: 10 4000 ml/min (Flow meter dependant)
- Viscosity Range: 30 500 cp
- PID Loop Updates: 50 times per second
- Job Tables: 100 Jobs (P-sets) per gun











ROI opportunities:

- Dynamic metering system eliminates waste associated with "hot potting".
- Dynamic metering system eliminates rejects associated with "hot potting" such as:
 - Variations in gloss
 - Variations in viscosity
- Closed loop flow control will result in a reduction of 5 –
 10% of coating usage.
- Automated color change will:
 - Reduce solvent usage by 25 50%
 - Improve cleanliness













RansFlow Configurations

Controls			Fluid Components			Color Change	
RansFlow	Solenoid	Remote Operator	Fluid Regulator	Fluid Panel	Fluid Panel	Resin CCV	Catalyst CCV
Controller	Interface Panel	Interface Panel	& Flow Meter	2 Component	3 Component	(1 - 10)	(1 - 3)
•••			BE THE STREET				

System Configurations

2K Metering

3K Metering

One Applicator, Flow Control

Two Applicator, Flow Control

One Applicator, Flow Control & 2K Metering

5							
			Optional			Optional	Optional
			Optional			Optional	Optional
	V		Optional	V		Optional	Optional
	V	Optional	Optional			Optional	Optional
	V	V	Optional		V	Optional	Optional





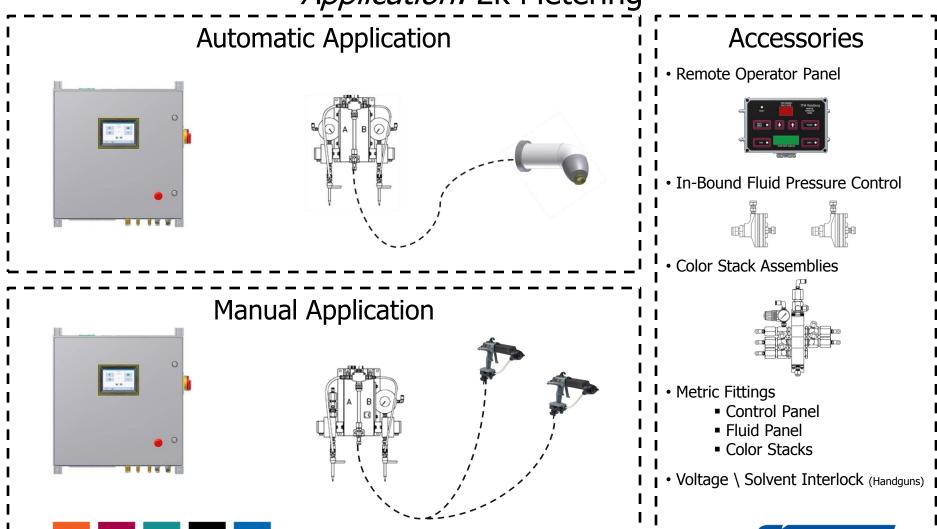




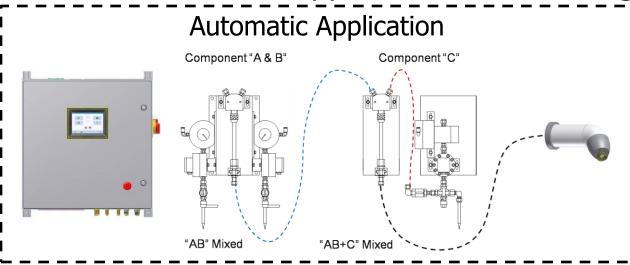


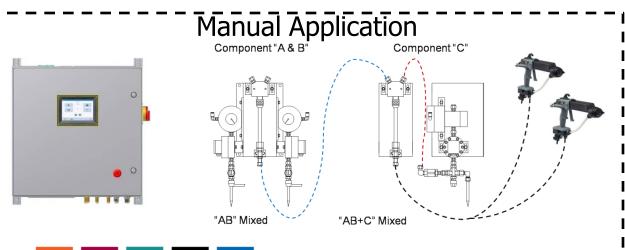


Application: 2k Metering



Application: 3k Metering





Accessories

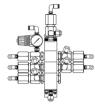
Remote Operator Panel



· In-Bound Fluid Pressure Control



Color Stack Assemblies



- Metric Fittings
 - Control Panel
 - Fluid Panel
 - Color Stacks

Voltage \ Solvent Interlock (Handguns)

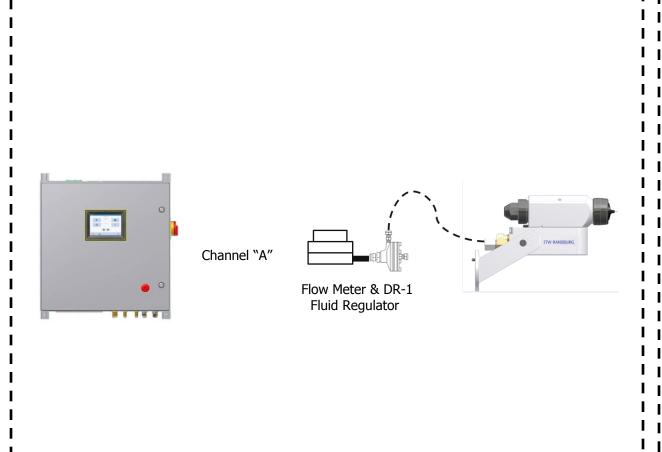








Application: Single Applicator Flow Control



Accessories

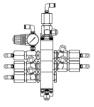
Remote Operator Panel



In-Bound Fluid Pressure Control



Color Stack Assemblies



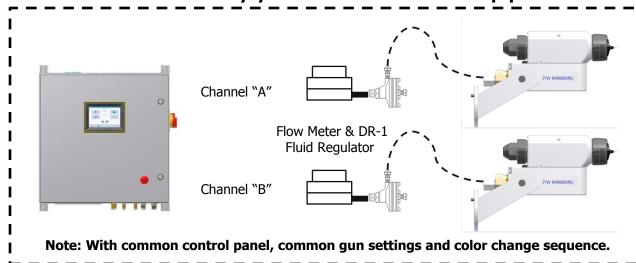
- Metric Fittings
 - Control Panel
 - Fluid Panel
 - Color Stacks
- Voltage \ Solvent Interlock (Handguns)

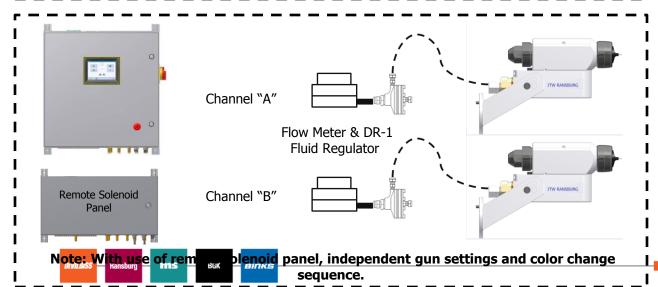






Application: Dual Applicator Flow Control





Accessories

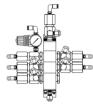
Remote Operator Panel



In-Bound Fluid Pressure Control



Color Stack Assemblies



- Metric Fittings
 - Control Panel
 - Fluid Panel
 - Color Stacks

Voltage \ Solvent Interlock (Handguns)



Application: Single Applicator Flow Control & 2k

