TS8200D Series

Micro-Meter Mix System Data Sheet

TECHCON

True volumetric measuring, mixing, and dispensing of 2-component materials

The TS8200D Series Micro-Meter Mix is a precision volumetric mixing and dispensing system for 2-component material. It consists of 2 progressive cavity pumps integrated in a fluid manifold connected to the static mixing nozzle. Part A and part B of the material is precisely fed by the progressive cavity pump with the correct ratio into the static mixing nozzle to provide accurate mixing and dispensing output.

Every component of the pump was designed to the highest tolerances and manufactured to the strictest degree of precision, ensuring world class accuracy and repeatability.

TS580D-MM smart controller features an intuitive touchscreen user-interface for easy setup and operation. Pump calibration is quick and easy. Dispensing parameters can be quickly dialed in on the touchscreen.

KEY FEATURES AND BENEFITS:

- True Volumetric/Positive Displacement technology to achieve +/- 1% variation in dispense output
- High quality mixing to ensure proper material curing
- Continuous Flow with adjustable flow rate to provide continuous dispensing process for efficient operation
- Independent of pressure and viscosity change to ensure accurate and precise results
- Suck back action to prevent material dripping
- Quick and easy cleaning to reduce down-time
- Internal fluid pressure alarm to prevent cross-contamination

TYPICAL APPLICATIONS:

- Bonding
- Glob-Top Potting and Encapsulation
- Potting of Electronic Components
- Battery Pack Sealing
- Thermal Paste Dispensing
- Filling

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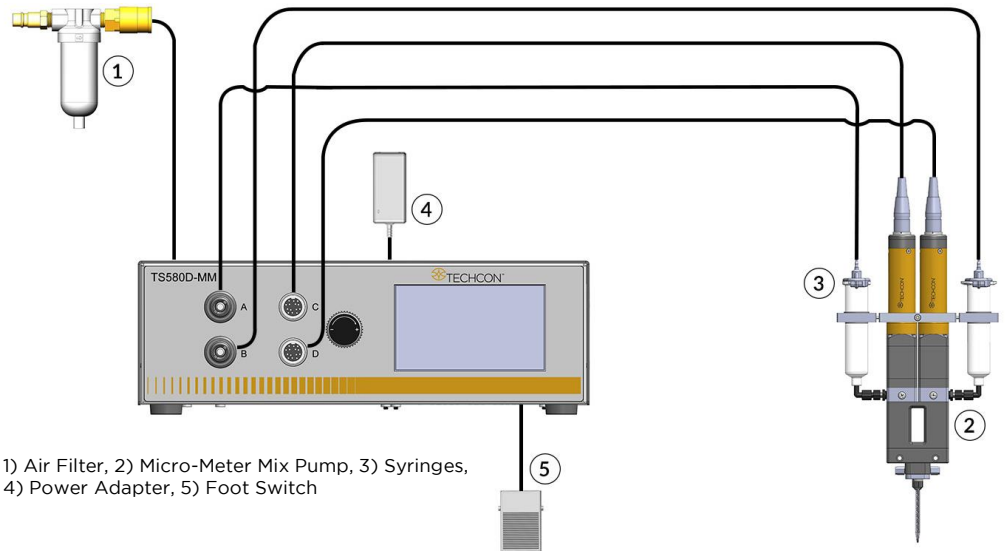
TYPICAL SETUP



1) Air Filter, 2) Micro-Meter Mix Pump, 3) Syringes, 4) Power Adapter, 5) Foot Switch

SPECIFICATIONS						
Part Number	TS8200D-100	TS8200D-200	TS8200D-300	TS8200D-2100	TS8200D-3100	TS8200D-3200
Description	Pump 100 X 100	Pump 200 X 200	Pump 300 X 300	Pump 200 X 100	Pump 300 X 100	Pump 300 X 200
Size	314 mm L x 69 mm W x 34 mm D (12.4" L x 2.7" W x 1.3" D)					
Weight	1.24 kg/2.74 lb.					
Motor	24V DC, incremental encoder					
Flow Rate	0.24–2.42 ml/min	1.29–13.80 ml/min	1.56–16.24 ml/min	0.77–8.11 ml/min	0.90–9.33 ml/min	1.43–15.02 ml/min
Dispensing Volume Per Revolution	.012 ml	.047 ml	.08 ml	.012 ml for -100 .047 ml for -200	.012 ml for -100 .08 ml for -300	.047 ml for -200 .08 ml for -300
Repeatability	+/- 1% per pump					
Dispense Accuracy	> 99%					
Fluid Inlet Pressure Maximum	Up to 2 bar (30 psi) for viscosity of 1,000 cps or less, up to 5.5 bar (80 psi) for viscosity greater than 1,000 cps					
Fluid Inlet Type	1/8" NPT					
Fluid Outlet	Static Mixer Adapter					
Mixing Nozzle	K-type, Standard Bayonet					
Mounting	M4 x 35MM, SHC, S.S					
Operating Temperature	10 – 40 °C (50 – 104 °F)					
Fluid Viscosities	1 - 300K Cps (m.Pa.s)					
Approval	CE, TUV-GS					
Warranty	1 year, limited					

Wetted Parts		
	Stator Housing: Anodized Aluminium	Manifold Gaskets: Viton
	Rotor: 17-4 Stainless Steel	Pump O-rings: BUNA N
	Stator: PFE	Vent seals: Fluorsilicone
	Flex Coupling: Stainless Steel, Polyolefin	Vent Screws: Stainless Steel
	Shaft Seal Block: Delrin	Fluid inlet fittings: UHMWPE, NYLON
	Manifold Plugs: Delrin	

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