

Pro-Meter[®] S2K Series Shot Meters

Dual positive displacement shot meter delivers precise control of material flow and mix ratio when dispensing two-component materials.



The Nordson Pro-Meter S2K series two-component shot meters are designed for application of two-component materials. When “bead on the part” appearance and consistent command of bead profiles and mix ratio are crucial to product quality and function, Nordson’s Pro-Meter S2K shot meters are the solution.

Features and Benefits

- **Linear servo actuator and positive displacement meter** provide accurate volume and flow rate control, regardless of changing material characteristics or robot speed.
- **Flow-through material porting design** reduces “packing out” of filled materials within cylinder, helping to reduce nozzle plugging and maintenance.
- **Dual independent servo drives** provide the system with the flexibility to be set up to dispense at a ratio that meets the material and application requirements.
- **Quick-change packing cartridges** facilitate easy access for on-line routine servicing and reduced maintenance costs.
- **Auto-Flo™ valve technology inlet/outlet valves** provide accurate deposition and control with sharp material cut-off for maximum performance and cartridge-style maintenance.
- **Extrude, stream or swirl capability** provides flexibility to meet application requirements.
- **Multiple meter sizes available** to meet specific application volume and cycle time requirements.
- **Optional integrated temperature conditioning** – either 120V or 240V electrically heated units or water traced units are available – provides internal control of material temperature to the point of dispense.
- **Available ARW seals** pass air behind the primary seal to prevent an aerobic material from curing, eliminating premature wear and excessive maintenance.



Ease of Maintenance

The Pro-Meter S2K metering system is designed for fast, easy maintenance. It features a high-performance ScoreGuard[®] shaft coating to help withstand the abrasive materials present in today’s demanding production environments. In addition, it incorporates:

- Modular design
- Quick-connect cables
- Quick-change packing cartridges
- On-line routine servicing without removal from the production cell
- Reduced maintenance costs



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Meter Operation

The Nordson Pro-Meter S2K combines shot meter technology with proportional control to provide precise, repeatable deposition and efficient material usage. A uniform amount of material is applied as the robot accelerates and decelerates along its programmed path via an analog input signal, while maintaining mix ratio. This precise flow control provides better adhesive bead profiles and excellent ratio control.

The material cylinder of the Pro-Meter S2K system is filled by positive pressure from a Nordson Rhino® bulk unloader to ensure positive material refill and eliminate “empty dispenses”. The first-in, first-out material flow eliminates dead spaces for material to pack out. In turn, the on/off gun dispenses the material with consistent bead profiles regardless of changing robot speeds for excellent product quality.

The use of dual servo drives allows for flexibility to select any mix ratio needed for the material being dispensed. The mix ratio of components can be adjusted during start up to change material characteristics or to adapt to a new material with a different ratio requirement. The Pro-Meter S2K shot meters are designed to work with unfilled and abrasive materials.



Available for both manual and automatic applications, the Nordson SureMix 2K dispensing system has a variety of options for bulk material supply and monitoring.

System Controller

The Pro-Meter S2K metering system can be operated from a Nordson PCI Controller or Process Sentry™ III controller. Either controller can provide extensive diagnostics for system set-up and adjustments, system status, easy robot programming and help screens with diagnostic information to assist in system operation. The controller monitors the metering system to assure the material cylinder has refilled, the correct amount of material has been dispensed, and all pressures are within preset high and low limits.

Specifications for various available meters

Pro-Meter S15	
Max. Flow Rate	5 cc/sec
Max. Operating Pressure	3000 psi

Pro-Meter S35	
Max. Flow Rate	10 cc/sec
Max. Operating Pressure	3000 psi

Pro-Meter S100	
Max. Flow Rate	20 cc/sec
Max. Operating Pressure	3000 psi

Pro-Meter S165	
Max. Flow Rate	20 cc/sec
Max. Operating Pressure	3000 psi

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