

Pro-Meter® G System

Urethane dispensing system provides consistent, reliable performance and ease of use.



The Nordson Pro-Meter G system is specifically designed for robotic application of high viscosity adhesives, including urethanes, silicones, butyls and hot melt materials. The system combines field-proven durability with ease of use for precision material application, operator to operator and shift to shift.

A typical Pro-Meter G system consists of the following components:

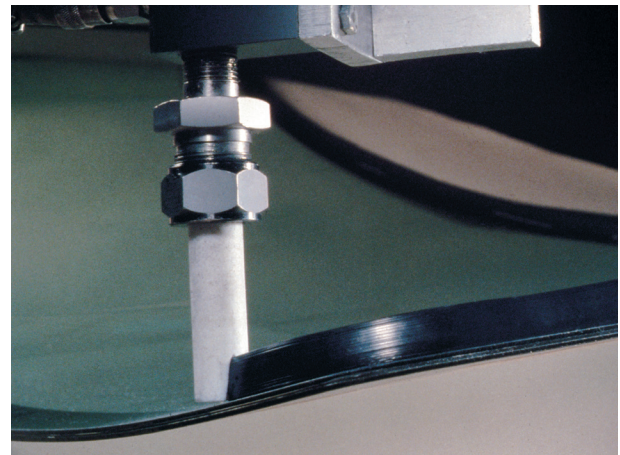
- Nordson Pro-Meter G gear pump
- CE20 HiVisc dispensing module
- System controller
- Rhino® bulk unloaders

The system is ideal for dispensing adhesives and sealants on a wide range of automotive glass.

- windshields
- back lights
- side glass
- sunroofs

The viscosity of adhesives can vary due to temperature, shear thinning and batch-to-batch chemistry. To maintain consistent output as material viscosity changes, the Pro-Meter G system incorporates a positive displacement gear pump to provide precise volumetric output. Depending on the system configuration, the gear pump can be mounted directly on the robot arm or on its own stand.

The system is available in a variety of displacements to meet specific application requirements.



Features and Benefits

- **Proportional flow capability** provides continuous, consistent bead size and eliminates squeeze-out of excess material.
- **Positive displacement gear pump** provides precise volumetric output.
- **Spur gear design on gear pump** eliminates side loads, reducing the likelihood of premature wear.
- **System controller** provides fast identification of faults in system pressure and volumetric output, minimizing downtime.
- **Optional bubble detection feature** alerts the operator to skips in the dispensed bead, improving quality and reducing scrap.
- **Unique seal design on gear pump** provides long seal life, reducing maintenance.
- **Automatic and manual flow control** allows for output proportional to the analog robot signal or a constant, manually set output for added flexibility.
- **Flow rate adjustment in both automatic and manual modes** permits the adjustment of bead height, eliminating the need to reprogram the robot.

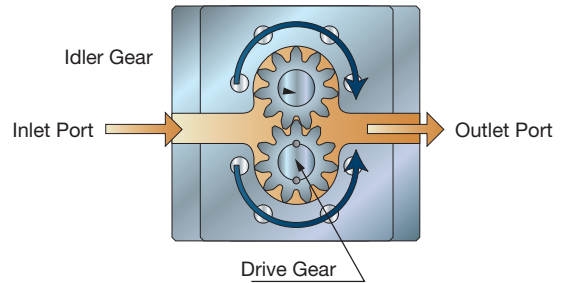


Pro-Meter[®] G System

How it Works:

The Pro-Meter G system reacts to an analog signal sent from the robot controller, which is proportionate to automation speed.

The system controller adjusts the gear pump revolutions accordingly, and meters material through the CE20 dispense valve and onto the glass. This provides uniform deposition of the adhesive bead as the robot accelerates and decelerates through its programmed path.



Heated Pro-Meter G System

The Pro-Meter G system is also available in a heated configuration for dispensing warm-applied urethanes and butyls.

System Controls

The Pro-Meter G System is available with several controller options to meet most application requirements.

Bead Height Adjustments

Allows changes to the amount of material being dispensed without reprogramming the robot.

Fault Monitoring

- High and Low Volume
- High and Low Pressure

Advanced Features:

- Multiple part IDs with unique setpoints for volume and pressure
- Advanced system diagnostics with help screens
- Data logging capability.

Optional Features:

Bubble detection package — A pressure transducer mounted in the CE20 dispensing module is used to detect bubbles in the material stream which can cause “skips” in the dispensed bead

Specifications

CE20 HiVisc Dispensing Module / Heated CE20 HiVisc Dispensing Module	
Dimensions: Height	7.75 inches, 19.7 cm
Width	7 inches, 17.8 cm
Depth	3.25 inches, 8.25 cm
Weight	5.7 lbs., 2.6 kg
Working Pressure	5000 psi (344.8 BAR) material; 60-125 PSI
Inlet Port	7/8 - 14 SAE straight thread O-ring

Gear Pump (12 cc / revolution)	
Dimensions: Height	10.5 inches, 26.67 cm
Width	10 inches, 25.40 cm
Length	35.75 inches, 90.81 cm
Weight	110 lbs., 49.90 kg
Material Viscosity Range	Up to 5,000,000 cps
Flow Range	Up to 36 cubic inches / min., 590.4 cc /min.

Gear Pump (40 cc / revolution)	
Dimensions: Height	12 inches, 30.48 cm
Width	12.5 inches, 31.75 cm
Length	43.5 inches, 110.49 cm
Weight	200 lbs., 90.8 kg
Material Viscosity Range	Up to 5,000,000 cps
Flow Range	0-120 cubic inches /min., 0-1968 cc /min.

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