



# Precision Dispensing Systems for LED Product Assembly Applications

Light-emitting diode (LED) products are used in indicator lamp products and have progressed for use in many commercial and residential lighting products. Products and applications using LED lights include aviation lighting, vehicle and truck lighting, signs, flash lights, traffic signals, solar lamps, appliance lighting and home lighting. The applications continue to grow as efficiencies for LEDs increase.

Nordson SEALANT EQUIPMENT produces precision dispensing equipment for the LED Lighting manufacturers. Two-part and one-part adhesives and sealants such as epoxies, silicones and polyurethanes are used in product assembly applications using LEDs. These applications include potting the LED lamp modules, bonding the LED module components together, sealing the LED module, gasketing the LED components.



There are additional products that support LED lighting that also require precision dispensing equipment. Electrical cables have potting requirements, PC boards in control modules require potting, storage and power batteries also have adhesive and sealant dispensing applications.

Two dispensing systems are most common for manufacturing LED products. For 1-part materials it is common to use a precision metering valve. One example is using multiple 2600-003 series meter valves or Micro-Meter valves which are supplied by a single pressure tank with low level material sensors.

Customers who dispense 2-part adhesives and sealants in small volumes and at low, medium or high cycle rates normally choose the Nordson SEALANT EQUIPMENT Micro-Meter 2 series dispensing systems which offer 3 selections of drive motors for meeting process requirements: Pneumatic, Air-Over-Oil and Servo Motor. Two-part valves are available with standard and bayonet disposable static mixers for automatic or manual dispensing applications.

# The LED Focus



The 2600-003 Metering Valve allows for accuracy even while cycling at a repetitive rate.



The Servo-Flo 801 easily mounts to an XYZ table.

**Sealant Equipment:** Manufacturers of precision meter-mix dispense systems and fluid dispense valves for processing 1- and 2-part adhesives, sealants and lubricating materials such as epoxy, urethane, silicone, acrylic, Plastisol and more in manual, automated and robotic metering, mixing and dispensing applications such as bonding, encapsulating, gasketing, molding, potting and sealing for small to Fortune 500 companies since 1967 and is ISO 9001:2008 certified.

Nordson Corporation (Nasdaq: NDSN) is one of the world's leading producers of precision dispensing equipment that applies adhesives, sealants, coatings and other materials to a broad range of consumer and industrial products during manufacturing operations. The company also manufactures equipment used in the testing and inspection of electronic components as well as technology-based systems for curing and surface treatment processes. Headquartered in Westlake, Ohio, Nordson has direct operations and sales support offices in more than 30 countries.



For more information, speak with your Nordson representative or contact your Nordson regional office.

## United States and Canada

Plymouth, Michigan  
+1.734.459.8600  
sales@sealantequipment.com

## Andina

Envigado, Colombia  
+574.339.2500  
nordsonandina@nordson.com

## Australia

Sydney, Australia  
+61.2.8814.4695  
ausspares@nordson.com

## China

Shanghai, China  
+86.21.3866.9166  
shanghai@nordson.com

## Europe

Erkrath, Germany  
+49.211.9205.0  
info@de.nordson.com

## Japan

Tokyo, Japan  
+81.3.5762.2700  
ppa.dm@nordson.co.jp

## Korea

Gyeonggi-do, Korea  
+82.31.766.8321  
steve.shin@nordson.com

## Latin America

Sao Paulo, Brazil  
+55.11.4195.2004  
admfin@nordson.com.br

## Mexico

Edo. de Mexico, Mexico  
+52.55.5301.1032  
ventas@nordson.com.mx

## South Asia

Bangalore, India  
+91.80.4021.3600  
nordsonindia@nordson.com

## South East Asia

Singapore  
+65.6796.9500  
nsea\_service@nordson.com