

Qadence™ System

Closed-Loop Flow Control for Conformal Coating

As consumers, we rely on manufacturers to deliver safe, high quality products with consistent performance – including cars, medical devices, and an array of IoT electronics.

Manufacturers depend on reliable and stable manufacturing processes, including conformal coating, to meet these quality expectations while maintaining high yield and throughput.

The Qadence™ closed-loop flow control system maintains a stable flow rate by volume for high quality coating results – automatically compensating for viscosity changes related to temperature, humidity and batch-to-batch variation.

The Qadence™ system is compatible with the Select Coat® SL-940 coating system, EasyCoat® 6 software and Nordson ASYMTEK conformal coating applicators.

With an enhanced spray process and flow stabilization for conformal coating applicators, the Qadence™ system delivers closed-loop flow control to achieve:



Features and Benefits

- **Improved product reliability** — Take control of the conformal coating process with set process limits to achieve target flow rates and precise application volumes. After process limits are set, target flow rates are continuously monitored for adherence throughout production. If the process falls outside precise application volumes, a control routine (patent pending) is activated to make corrective adjustments – reducing downtime and limiting operator intervention.
- **Improved traceability** — Export flow rate and volume data for evaluation in SPC software.
- **Time savings during setup** — Easily match flow rates during changeover or across two valves in a single application. Use the Flow Calculator in EasyCoat® 6 software to quickly calculate and set process limits — cutting the average setup time by half or better. With the Flow Calculator a typical 1-hour setup can be completed in 30 minutes and a 30-minute setup in less than 10 minutes.
- **Reduced labor** — Minimize operator intervention, rework and masking.

Specifications

- Flow range*: 1-100 mL/min
- Viscosity range*: 20-1200 cps
- Measurement resolution: 0.001 mL/pulse
- Measurement repeatability: ± 0.01 mL, 3 sigma
- Process control: ± 0.03 mL, 3 sigma
- Temperature range: 20-50°C
- Software: Integrated into EasyCoat® 6 software

*Higher performance factors can be achieved. Contact us to discuss your specific application needs.

Applicators

- Select Coat® Applicator Series – SC-350 Select Spray and SC-300 Multi-Mode
- SC-400 PreciseCoat® conformal coating jet**
- Select Coat® SC-280N film coater applicator**
- DV-09 needle valve

Material Compatibility Wetted Parts

- Body and wetted parts: Stainless steel
- Seals: Polytetrafluoroethylene (PTFE)

Flow Monitoring

- Select Coat® SL-940 Series Core Trim or systems with Laser Fan Width Control support Flow Monitoring capability only.

Limitations**

- Not compatible with abrasive fluids.
- Not compatible with recirculating fluid systems.

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

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