In-Process Flux Verification
Ensures Improved Consistency and Process Control for Drop-Jet Fluxing

Features and Benefits

- Closed-loop system ensures true no-clean processing since flux is mitigated by solder nozzle without residue or ionic contamination
- Compatible with FluxJet precision drop-jet flux dispenser to verify accuracy of flux application
- Verification technology is based on precision fiber optics with controls to check the size and accuracy of the flux droplets
- Modular design allows for easy servicing providing fully maintainable and serviceable production environment
- Ideal for micro flux deposition of flux to small solder sites with unparalleled accuracy and minimal flux consumption

Overview. The In-Process Flux Verification is designed to ensure the drop-jet dispenser is producing a narrow flux deposition pattern with minimal deflection of flux droplets. This process check ensures that flux satellites do not occur if deflected in the event of a partially clogged drop-jet orifice which can compromise no-clean processing.

The SWAK-OS 4.0 software integrated with the In-Process Flux Verification control module provides the necessary drop frequency control of the drop-jet dispenser to ensure true no-clean processing.

Integrated Solution. The In-Process Flux Verification system fully integrates with closed-loop process controls contained in Nordson SELECT’s SWAK-OS 4.0 software providing seamless operation for your selective soldering process. Nordson SELECT’s closed-loop process controls enable successful results for a full range of soldering applications and ensures stable and repeatable results for high-yield production.

Experience. With over a decade of selective soldering experience and more than a thousand systems currently in production, Nordson SELECT is committed to providing innovative solutions for all selective soldering needs. Our global support network, including state-of-the-art application development labs, provides customers with world-class know-how and application expertise.
In-Process Flux Verification

Drop-Jet Compatible Flux Chemistries
Alcohol-based fluxes
Water-soluble fluxes
Rosin-based fluxes
High solids content fluxes
Low pH fluxes

Drop-Jet Specifications
Nozzle orifice size: 130 µm standard
Practical drop size: 2-4 mm (adjustable)
Drop Frequency: 0-90 Hz
Practical deposition range from PCB: 12-55 mm
Max. solids content: 33%
Min. pH: 2.5

Application Note
The Nordson SELECT FluxJet Precision Drop-Jet Flux Dispenser is recommended for no-clean processing when printed circuit boards will not be cleaned after selective soldering.

The FluxJet Precision Drop-Jet Flux Dispenser can be integrated side-by-side with a standard atomizing spray flux applicator to create a dual fluxing system capable of both site-specific flux deposition and mass flux application.

Dual flux heads, drop-jet and atomizing spray

Compatible with Novo® 102, 103, Cerno® 102IL, 103IL, 105IL, Integra® 103ILD and Flux & Preheat models

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