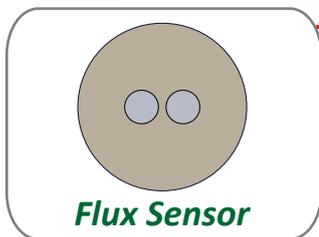
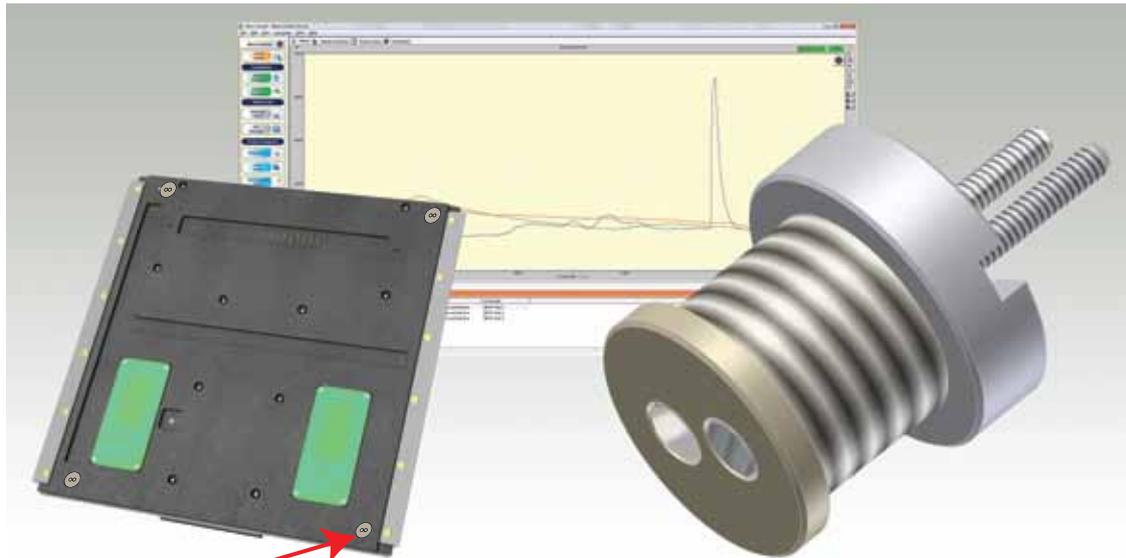


P.N AC-FX-001 Flux Sensor Option



- Allows testing of fluxer as part of the daily selective machine test
- Detect typical flux spots of 2 - 3mm
- Programmable to detect different flux types reliably
- Detect mis-sprays due to nozzle clogs
- Detect X/Y positioning errors

Measurement of you Mini-Wave fluxer and positioning mechanism

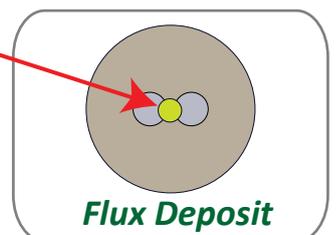
After discussions with both customers and machine manufacturers, the main problems reported in fluxing within the selective process was X/Y positioning problems and crystallisation/nozzle clogging. These two issues often result in flux being deposited in the wrong areas on an electronic assembly, insufficient fluxing of necessary components will result in poor soldering quality, and potentially un-activated flux could seep under sensitive electronics, producing in-field issues.

The Flux Sensor option can be installed to the Solderstar Mini-Wave selective measurement pallet, expanding its standard measurement system to allow detection of the presence on flux.

An array of four sensor heads are installed to the base pallet, plus an additional signal conditioning circuit to allow small surface resistance measurement to be performed by the measurement electronics.

The selective machine is programmed to deposit a small amount of flux at the centre of each sensor. The gap between the sensor points is 1mm, allowing a very small deposit of flux to be sprayed for detection.

This 4 point method given a good indication of both positioning accuracy and perpendicular spraying/jetting of the flux.

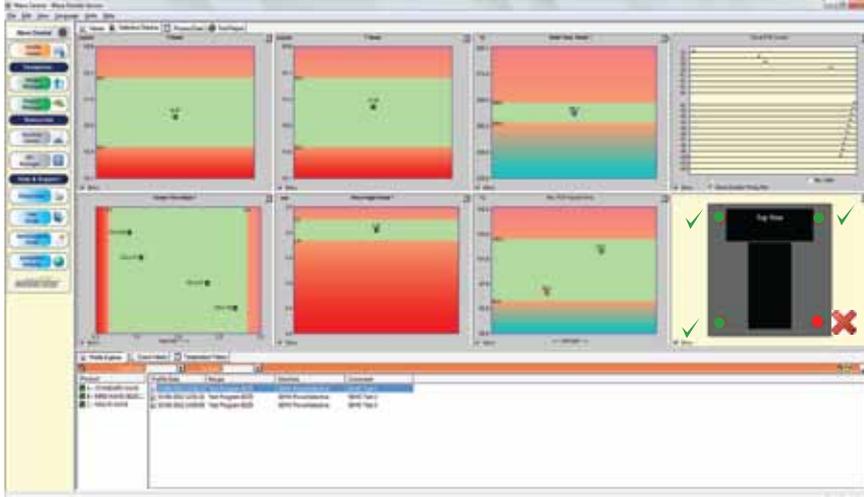


Software Integration

When the flux sensor option is fitted, an additional Process Checker chart is made available in the Wave Central software.

This chart shows a red/green indication of which flux sensors did detect flux as part of the diagnostic run.

Combined with contact, nozzle height and temperature profiles the addition of the flux sensors gives the most comprehensive independent measurement of the selective process.

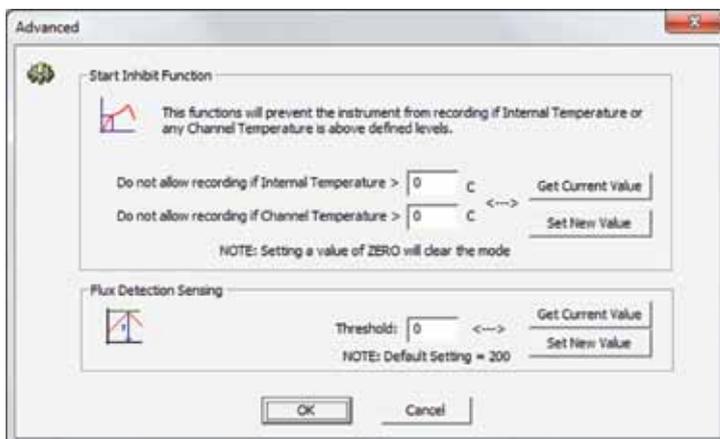


Wave Central Integration

Software controlled flexibility for differing flux types

Different flux chemistries can behave differently on the surface of the sensors, although the default setting sensors will detect most flux types.

For special fluxes, the software can change the dynamics of the measurement circuit with ease. This feature allows the pallet to be tailored to any special settings required to detect the flux type in operation.



Programmable Thresholds

Compatibility

Wave Central V6.7f or above

Logger Firmware V7.1 or above

Retro-fitting

It is possible to add the flux sensing option to a pre-existing Mini-Wave Selective pallet.

Please contact SolderStar for pricing and any updates required.

Additional Process Support



A range of process specific accessories are available to extend the system for use with Reflow, Wave/Selective Soldering and Vapour Phase processes.

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