

WaveShuttle PRO

System Advantages

- High quality 10mm fixture provides a fixed robust platform for initial process set up, periodic checking and comparison
- Underside titanium contact sensors give highest measurement accuracy on Wave Height and main and chip wave parameters
- Custom widths and sensor positions available for fixed width lines or special applications
- Connectivity via standard USB cables or 2.4Ghz Wireless Telemetry
- Dedicated Wave Central PC analysis software with product database and integrated SPC charting package

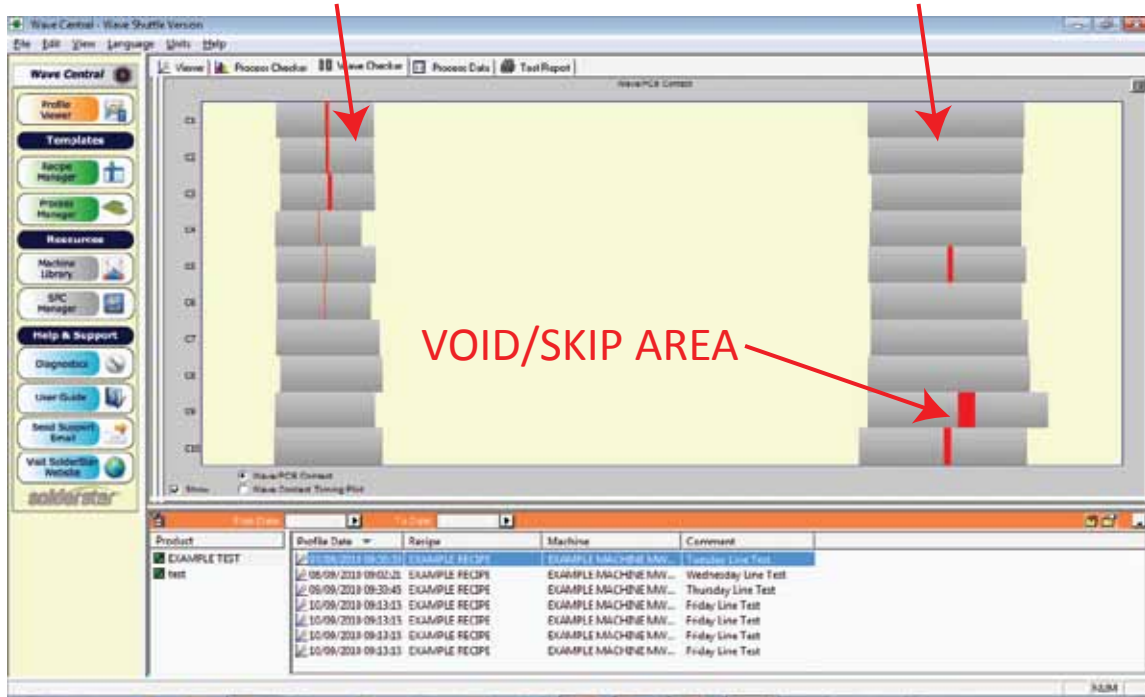
Featuring SolderStar
smartlink
connection System

Measure all key parameters in single pass

The WaveShuttle Pro is an intelligent fixture that measures all key parameters from a single pass through the wave soldering machine. Thermocouple sensors are combined with dedicated titanium wave measurement contacts, allowing manufacturers to gain a true measurement of the performance of their wave soldering process.

CHIP WAVE CONTACT AREA

MAIN WAVE CONTACT AREA



Parameters Measured

Main Wave and Chip Wave dwell/contact time
Wave Height / Immersion Depth
Conveyor speed
Top side PCB temperature (Left & Right)
Solder Pot temperature
Delta T at Wave
PCB/Wave Contact Area
PCB to Conveyor Parallelism
Component Heating Rates
Real component temperatures (via spare channels & user test PCB)

Technical Data

| | |
|------------------------|--|
| Construction | CDM Anti Static 10mm |
| Size/Weight | 250mm x 315mm x 30mm (max) 1kg |
| Dwell Contacts | 11 positions measured by on-pallet system |
| Contact sampling | All contacts 100 times per second |
| Timing accuracy | +/- 0.01 seconds |
| Wave Height Array | 0.2 - 2.4mm |
| Temperature | 5 channels measured by Neptune SL 2 x PCB top side L&R TYPE K 1 x Solder Pot TYPE K 2 x User PCB/Auxiliary TYPE K |
| Temperature Accuracy | +/- 1°C |
| Temperature Resolution | 0.02°C (0.1°C displayed on graph) |

Wireless Telemetry Option

| | |
|-----------|----------------------------------|
| Frequency | 2.4GHZ Transceiver |
| Channels | 128 Individual Channels |
| Protocol | Zigbee PRO - Duplex Transmission |



Software

| | |
|------------------|---|
| Compatibility | Windows™ XP Vista/Windows 7/8 32 & 64 Bit |
| Language Support | English, French, German, Italian, Portuguese, Spanish & Chinese |

Standard Equipment

- 250mm Width Pallet
- PC Software on CDROM
- Equipment Case

This product can be supplied as a stand-alone system complete with datalogger, or as an accessory to an existing SolderStar system. Please contact SolderStar or your local supplier for the optimum configuration for your soldering processes.

Customisation

Custom width pallets are available to special order to meet any exact requirement of your production lines.

Optional Equipment

- 2.4Ghz Wireless Telemetry

Additional Process Support



REFLOW • WAVE • VAPOUR

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

SolderStar Ltd
Manchester UK

Tel: +44 (0)1706 354846

Fax: +44 (0)1706 675296

Email: info@solderstar.com

www.solderstar.com