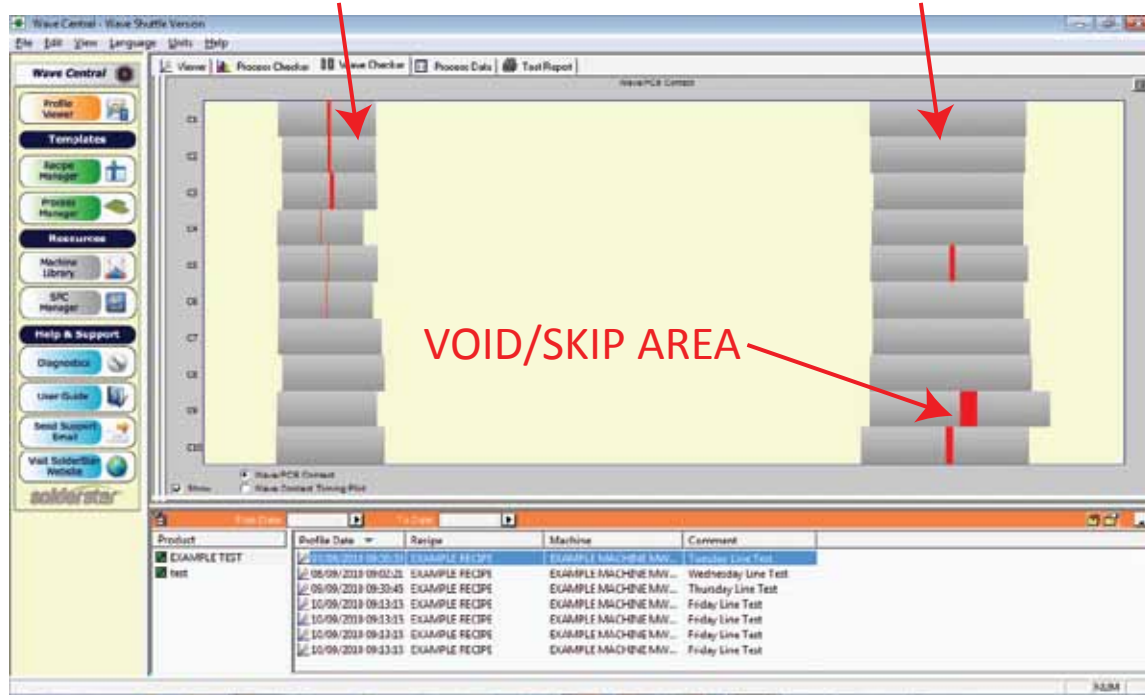# Part No. AC-WSPRO

solderstar

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

- Fully enclosed and protected datalogger and contact measurement system ideal for hotter lead-free processes

- Connectivity via standard USB cables or 2.4Ghz Wireless Telemetry

- Dedicated Wave Central PC analysis software with product database and integrated SPC charting package

Available with:

5 CHANNELS · **USES Z TELEMETRY** · **smartlink CONNECTION SYSTEM**

'Digital Plexi-Glass' Technology - Measure and record the true PCB/Wave Contact

Designed to work in conjunction with an existing SolderStar Pro temperature profiling package, the SolderStar WaveShuttlePro is an advanced accessory that provides detailed analysis of all key parameters of the wave soldering process. By combining temperature profile capture and dedicated wave interaction measurement sensors in one easy to use active wave solder pallet, this unique tool allows manufacturers a to easily gain absolute SPC of their wave soldering process.

CHIP WAVE CONTACT AREA

MAIN WAVE CONTACT AREA

VOID/SKIP AREA

Captures all key parameters in one pass through the wave solder machine

Part No. AC-WSPRO

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
Temp Accuracy	+/- 1°C
Temp Resolution	0.02°C (0.1°C displayed on graph)

Wireless Telemetry Option

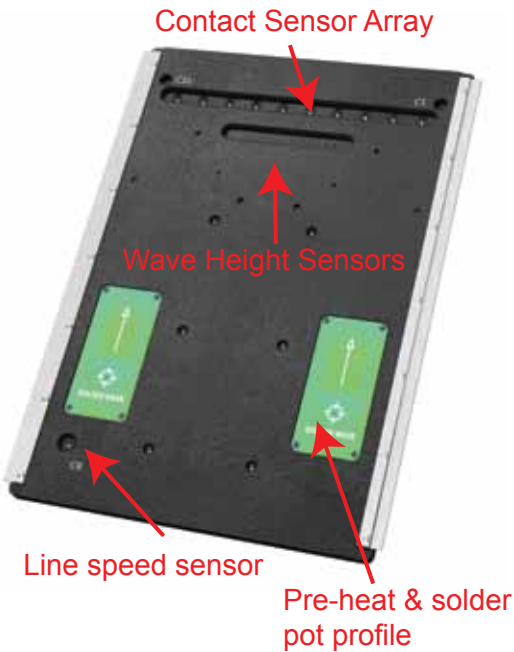|	
Frequency	2.4GHZ Transceiver
Channels	128 Individual Channels
Protocol	Zigbee PRO - Duplex Transmission

Software

Compatibility	Windows™ XP Vista/Windows 7 32 & 64 Bit
Language Support	English, French, German, Italian, Korean, Portuguese, Spanish, Simplified & Traditional Chinese

For further information and demonstration software visit www.solderstar.com

Wave Sensors

Contact Sensor Array

Wave Height Sensors

Line speed sensor

Pre-heat & solder pot profile

Standard Equipment

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

Optional Equipment

• 2.4Ghz Wireless Telemetry

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

Specification subject to change without notification

3 in ONE

REFLOW • WAVE • VAPOUR