

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

Product	Profile Date	Recipe	Machine	Comment
EXAMPLE TEST	10/09/2010 09:26:30	EXAMPLE RECIPE	EXAMPLE MACHINE MW...	Tuesday Line Test
	08/09/2010 09:20:25	EXAMPLE RECIPE	EXAMPLE MACHINE MW...	Wednesday Line Test
	08/09/2010 09:20:45	EXAMPLE RECIPE	EXAMPLE MACHINE MW...	Thursday Line Test
	10/09/2010 09:13:11	EXAMPLE RECIPE	EXAMPLE MACHINE MW...	Friday Line Test
	10/09/2010 09:13:11	EXAMPLE RECIPE	EXAMPLE MACHINE MW...	Friday Line Test
	10/09/2010 09:13:11	EXAMPLE RECIPE	EXAMPLE MACHINE MW...	Friday Line Test
	10/09/2010 09:13:11	EXAMPLE RECIPE	EXAMPLE MACHINE MW...	Friday Line Test

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



I-TRONIK S.R.L. - Macchine e prodotti per l'industria elettronica
Via dell'Artigianato, 20 - 35010 - Peraga di Vigonza (PD)
Tel. +39.049.895.2300 - Fax +39.049.893.4822 - P.IVA 01443020282
commerciale@itronik.it - www.itronik.it

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