



Verification for Vapor Phase Equipment

The VaporShuttle Uniformity Fixture is designed to enable precise machine-level qualification and routine verification of vapour phase soldering systems, focusing on the performance of the reflow chamber itself rather than the characteristics of individual PCBs.

The fixture incorporates a standardised thermal test plate equipped with thermocouples positioned at strategic locations.

This configuration allows for the generation of a comprehensive thermal uniformity profile, characterising the machine's heat distribution across the active process area.

This dedicated verification tool is essential for a range of process control tasks, including:

- ✦ Machine acceptance and post-maintenance validation
- ✦ Routine checks to maintain consistent thermal performance
- ✦ Routine monitoring of chamber performance to maintain a consistent

Paired with the VP10 Thermal Profiler, VaporShuttle clearly distinguishes machine-related variations from PCB thermal characteristics. This combined approach confirms uniform heat distribution, verifies proper soldering conditions, and quickly identifies whether issues stem from equipment or design — helping manufacturers optimise process parameters, meet audit requirements, and ensure repeatable, high-reliability results.

SLX Datalogger Technical Specification

Size/Weight	126mm x 52mm x 9.5mm, 118g
Channels	12 - Type K
Temperature Memory	12 Memories, each with 25000 data points per measurement channel
Measurement Rate	0.05s to 60 seconds
Measurement Range	-125 to 1372°C (-257 to 2502 °F)
Measurement Accuracy	±0.5 °C (0.9°F)
Measurement Resolution	±0.05 °C (0.09°F)
Max. Internal Temperature	+85 °C (Auto Shutdown on over temp.)
Power	User replaceable, High Temperature NiMH
Communications	USB or optional 2.4Ghz Wireless
Input Type	Type K, EN 05842:1993, Class 1 / ANSI MC 96.1



Vapor Shuttle Technical Specification



Supplied Model	VS-350-395-001
Material	RICOCEL® Antistatic (ESD) composite
Vacuum Capable	Yes
Special Features	Vacuum release valve to ease datalogger retrieval
Temperature Sensors	8 x Matched Thermal Masses
Thermocouples	Type K, EN 05842:1993, Class 1 / ANSI MC 96.1

Wireless Telemetry Option

Frequency

2.4 Ghz Transceiver

Channels

128 Individual Channels



Software

Compatibility

Windows 7/8/10/11

Language Support

English, French, German, Italian, Portuguese, Spanish & Chinese

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