The SolderStar DeltaProbe removes the need to use fragile test boards for periodic profiling required for ongoing control of the reflow process.

With fixed sensors and no test card or long trailing wires, the DeltaProbe is a robust and convenient platform for generating highly repeatable oven measurements.

Although process setup requires a temperature profile captured from a real test PCB, ongoing process monitoring can be achieved by measuring the difference from an established process baseline. Periodically the DeltaProbe is passed through the process to allow oven verification and SPC data to be captured. Process change, due to variations in convection levels, conveyor speed or zone setpoints, are instantly and accurately detected and the operator is notified visually.

Integrated SPC tools allow the operator to produce process control charts for ongoing process control measurement, evaluation and corrective action.

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**A ‘golden profile’ for each process is established in 3 easy steps:**

1. The optimum oven settings are first established by product profile capture and simulation
2. The DeltaProbe is then passed through the reflow oven to capture a ‘golden process profile’
3. Tolerance limits can now be set around temperature traces and process parameters
Error Conditions Detected
Incorrect oven profile loading
Unauthorised change of oven profile settings
Conveyor speed errors
Setpoint & convection level errors

Standard Equipment
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.

Heatshield + Thermocouple Adapter
Material Stainless Steel
Size (LxWxH) (L)330mm x (H) 25mm (W) 120mm upto 450mm

Thermal Protection Duration

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Survival Time - Minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>100°C</td>
<td>0</td>
</tr>
<tr>
<td>150°C</td>
<td>5</td>
</tr>
<tr>
<td>200°C</td>
<td>10</td>
</tr>
<tr>
<td>250°C</td>
<td>15</td>
</tr>
<tr>
<td>300°C</td>
<td>20</td>
</tr>
</tbody>
</table>

Other heatshield sizes are available for special process requirements.

Wireless Telemetry Option
Frequency 2.4GHZ Transceiver
Channels 128 Individual Channels
Protocol Zigbee PRO - Duplex Transmission

Software
Compatibility Windows™ XP Vista/Windows 7/8/10 32 & 64 Bit
Language Support English, French, German, Italian, Portuguese, Spanish & Chinese

For demonstration software visit www.solderstar.com

Optional Equipment
• 2.4Ghz Wireless Telemetry

For more information contact your regional Solderstar office