

TEMPROBE™

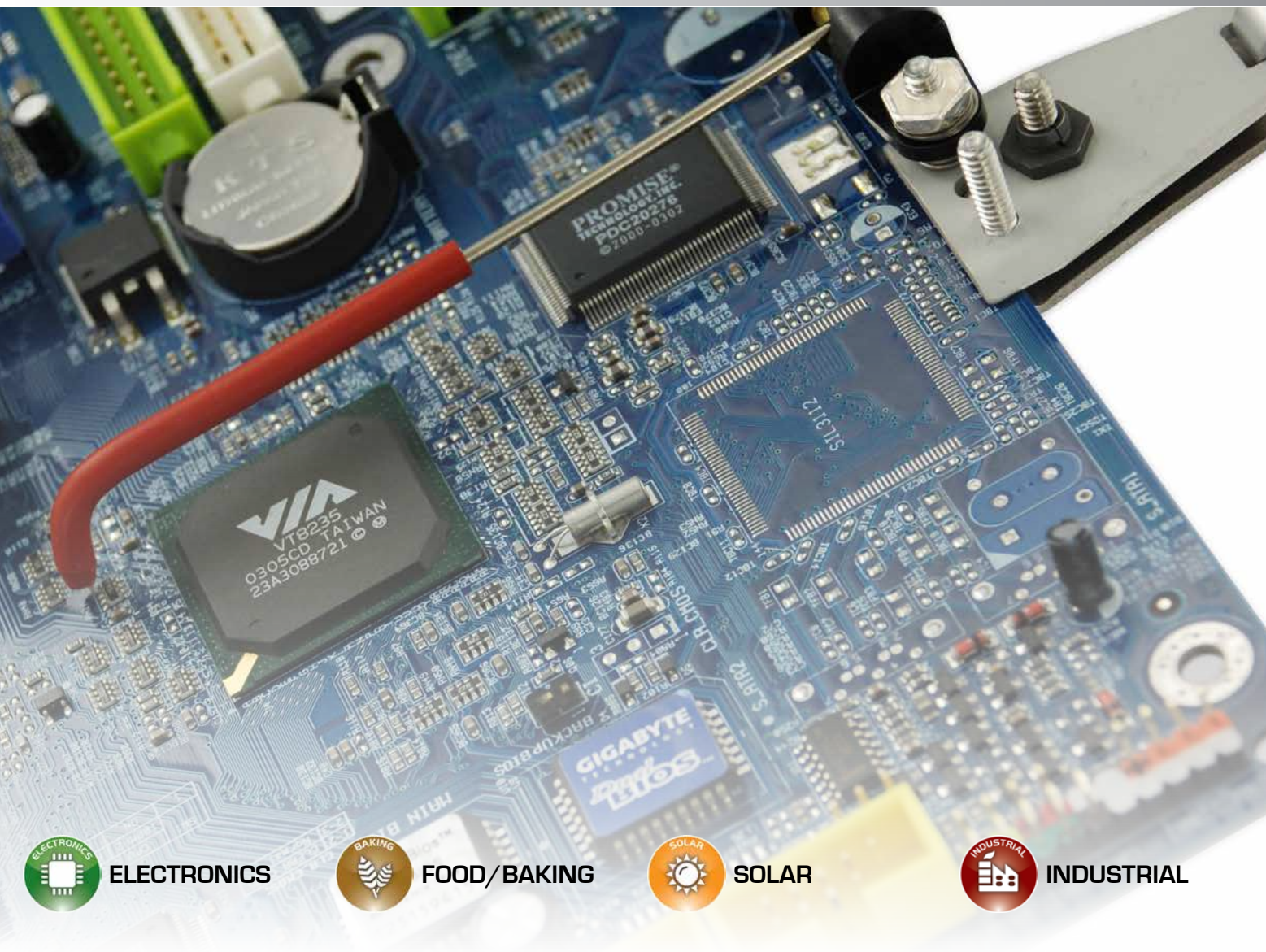
Most Efficient Concept in Reflow Thermal Profiling

TEMPROBE™

TEMPROBE™ is a patented, precision temperature sensing instrument for easy non-destructive profiling. The subminiature thermocouple tip can be placed anywhere on a board, including profiling in wet solder paste or on fine pitch component legs. TEMPROBE™ is used in place of a conventional thermocouple to monitor the temperature of critical solder joints or components in soldering and rework processes. TEMPROBE™ is compatible with all thermal profilers.



www.ecd.com/products/temprobe ➔



ELECTRONICS



FOOD/BAKING



SOLAR



INDUSTRIAL

Accurately senses component temperature

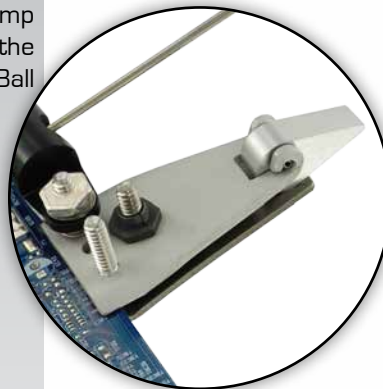
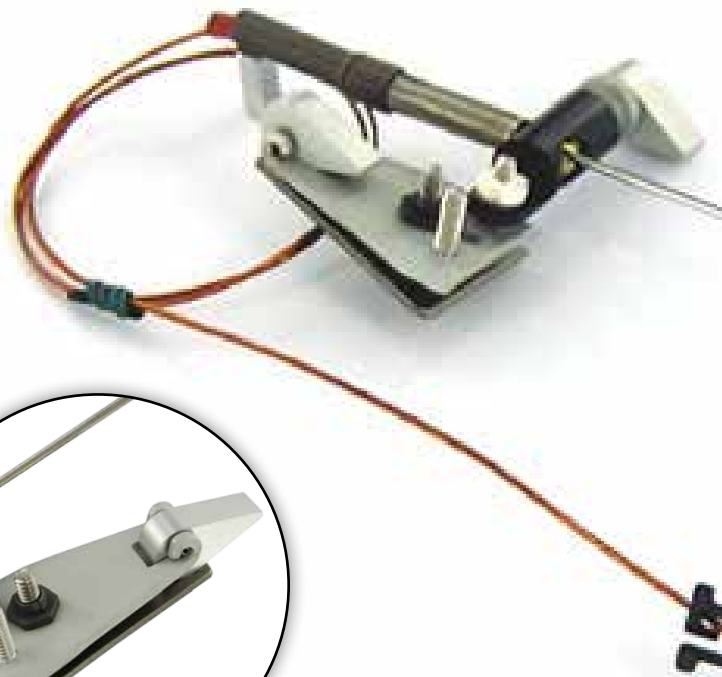
SLIDING BALL JOINT

3 dimensional positioning of the thermocouple tip on the test product. Lever locks the ball joint securing the tip into place on the PCB.



CLIP, POSITION & PROFILE

Simply clip the TEMPROBE™ to your board, place and lock the thermocouple tip where you like, and you are ready to profile. It has minimal contact area, so heat exchange with PCB is negligible. Clamp features includes a cam actuated locking lever to secure it to the PCB and a second stud for an additional TEMPROBE™ and Ball Joint.



Advantage TEMPROBE™:

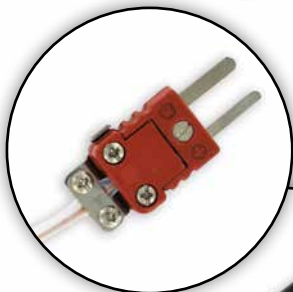
- Profile the first pass through the oven by placing the TEMPROBE™ thermocouple tip in wet solder paste.
- Profiles are more accurate with TEMPROBE™ because no added material (solder or epoxy) is used for attachment.
- The TEMPROBE™ thermocouple tip is preloaded to maintain high contact pressure throughout the profile.
- TEMPROBE™ makes it easy to take more profiles with greater consistency, to support ISO and SPC data requirements.

Save Money:

- TEMPROBE™ cuts labor, PCB rework and scrap to provide quick payback!
- No costly sacrificial test boards for temperature profiling.
- No soldering or bonding, so no residue or mechanical damage to the board assembly.
- No need to rerun profiles because a taped down wire lifted off the PCB.

Excellence in Measurement

eratures without soldering or taping!



QUALITY, PRECISION, FUNCTION

The TEMPROBE™ sensing element is a subminiature thermocouple, hermetically sealed in a stainless steel sheath. This sheathed thermocouple is designed to insulate it from ambient temperature, and to hold the protruding thermocouple tip in firm thermal contact with the object it is measuring.

HI-TEMP MINI & ECD MICRO CONNECTORS

TEMPROBE™ is available in both hi-temp miniature and ECD Micro connectors that are compatible with most thermal profilers.

ent Solutions Worldwide

SPECIFICATIONS

TEMPROBE™

Maximum reach radius:	5.5in (14cm)
Height with clamp:	0.55 to 0.49in (14 to 12.5mm) above PCB
Weight:	1.6oz. (45g)
Probe material:	Stainless Steel
Temperature limit:	572° F (300° C)
Sensor:	Type K junction
Lead wire:	24in. (60cm) with Kapton® insulation
Special Limits of Error:	Less than ± 1.1° C (Per ANSI MC 96.1)

CLAMP (INCLUDED)

Weight:	0.53oz. (15g)
PCB thickness:	Up to 0.30in (7.6mm)
Sensor capacity:	1 or 2 probes

BALL JOINT (INCLUDED)

Weight:	0.42oz (12g)
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KIT INCLUDES:

- TEMPROBE™
- Clamp
- Ball Joint
- Choice of connector
 - ◊ Hi-Temp Miniature or SuperM.O.L.E.® Gold Micro
- Plastic accessory box and foam

ACCESSORIES:

- TEMPROBE™ Only
 - ◊ SuperM.O.L.E.® Gold Micro (P/N: E45-0764-77)
 - ◊ Hi-Temp Miniature (P/N: E45-0783-77)
- Clamp
 - ◊ (P/N: E40-0200-35)
- Ball Joint
 - ◊ (P/N: E40-0200-30)
- Extension Cable - 15ft (4.6m) with Kapton® insulation
 - ◊ 1 Channel (P/N: E40-0200-71)
 - ◊ 2 Channel (P/N: E40-0200-72)

PATENT

U.S. PATENT No. 5,193,912

WARRANTY

6 months parts and labor

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