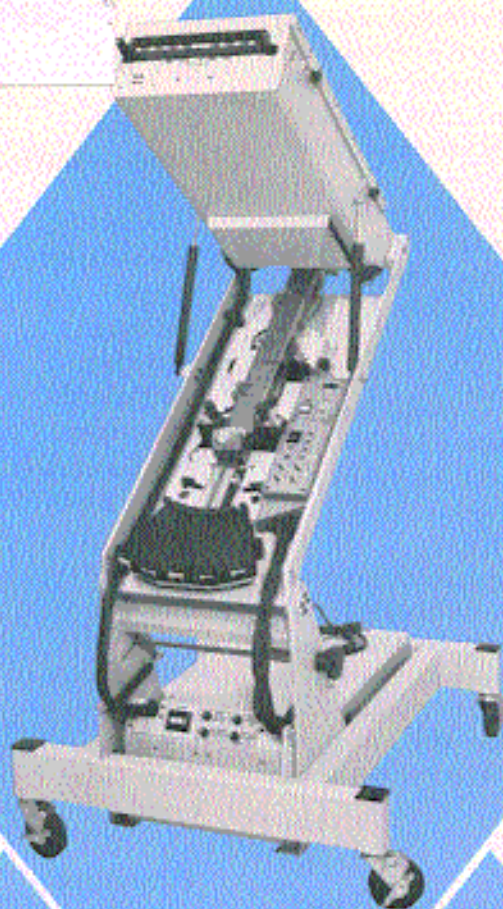




AMERICAN
TECHManufacturing

T-2080-S/SDS Environmental SIP Handler

SINGLE OR DUAL
TESTING OF IC'S IN
SINGLE IN-LINE
PACKAGES TO
125°C.



- High Frequency Contactor** features 1/2" signal path and large power ground planes.
- Selectable Guard Band** inhibits testing when chamber temperature exceeds desired limits.
- Optional Marker** identifies defective devices mounted on SIP.

- Fail-safe sorting** detects and prevents binning errors before they occur.
- Free Flowing Operation** – a direct result of matching mechanism to SIP profile.
- Environmental Enclosure** houses both contactor test sites and SIP devices.

PACE-SETTERS IN MODERN COMPONENT HANDLING

GENERAL DESCRIPTION

The T-2080-S Single Test Site and the T-2080-SDS Dual Test Site Environmental Handlers provide a cost-effective solution for high volume elevated temperature testing of IC's packaged in SIP format. Typical products include high density memories employing multiple chip carriers, surface mounted to one or both sides of a ceramic or PCB substrate with interconnect pins along one edge.

The environmental chambers and temperature control systems are configured to insure high fidelity temperature testing to 125° Celcius. Soak chamber capacity supports operation at 125°C for devices whose test time is 3 seconds or longer.

FAIL-SAFE SORTING

TRIGON's fail-safe sorting system detects potential binning errors *before* the device is sorted, unlike some systems which only alert the operator of a binning error *after* it has occurred.

DESIGN SIMPLICITY

The T-2080 SIP Test Handler features a minimum number of moving parts, each of extremely simple long-life design. There are no complex, high speed mechanisms with their attendant potential for short life and high maintenance costs.

The soak chamber contains a single moving assembly which indexes only when the equivalent of an entire tube of devices has been tested, rather than each time a single device has been tested.

TESTER INTERFACE

Two interconnections are required between an automatic tester and the T-2080-S or T-2080-SDS. A single control cable carries all tester and handler interface control signals which are optically isolated and may be either negative or positive true, 5 to 15 volts. Although a cable can be used to interconnect the contact set to the tester performance board, optimum conditions are usually achieved by connecting the test head DUT board directly to the contactor. Connection in this manner provides a total path length of approximately 1/2 inch between the point of contact with the SIP and the DUT board.

MARKER

An optional Marker Accessory, activated by tester category signals, places a visible mark on each defective chip carrier mounted to the substrate. This provides visual indication for later rework.

Contact one of our regional offices or the factory for further information.

SPECIFICATIONS

Packaged Style:	SIP (single in-line package) 22 leads standard; other sizes optional.
Test Sites:	Single test site T-2080-S Dual test site T-2080-SDS
Contactor Characteristics:	Approx. 1/2" total path length. Large power and ground plane for low impedance at high frequencies.
Temperature Range:	Ambient to 125° Celcius.
Set Point Accuracy:	±1.5° Celcius.
Set Point Resolution:	±1.0° Celcius.
Test Temperature Guard Band:	Selectable limits of ±1.5, 2, 3, 4, 5°C, inhibits test when soak chamber or test site exceeds selected limits.
Display:	3-digit LED temperature indicator, switchable for set point adjustment.
Sensor Locations:	Soak chamber and contactor test site.
Over-Temp. Control:	Safety cutoff at 165°C.
Soak Time Control:	0, 30, 60, 90, 120, 150, 180 seconds, switch selectable.
Throughput:	
Ambient:	Parallel mode = 5500 UPH including 100 to 150 ms test time. Serial mode = 5000 UPH at zero test time.
Temperature:	Approx. 2500 UPH at 70°C for typical 22 lead device.
Output:	Fail-safe sorting into 5 positions with full intermix programming and automatic stepover. Tube-In-Place detector, jam sensor and sorter position interlock detector for each output position.
Utilities:	105-125 or 210-260 volts 50/60 Hz, switch selectable.
Physical Data:	Height: 125-152 cm (50-65") nominal. Base Width: 74 cm (29") Base Depth: 91 cm (36") Weight: 113 kg (250 lbs.) Approx.



American Tech Manufacturing, Inc.

41332 Christy Street
Fremont, CA 94538
USA

Tel: (510) 657-9370 • Fax: (510) 657-9377

E-mail: sales@americantech.com

Internet: www.americantech.com