



AMERICAN
TECHManufacturing

T-2045
QUIK-SET

ENVIRONMENTAL HANDLER

Dip Testing to 125° Celcius
Size Adjustable *300 to 600 MIL

FEATURES

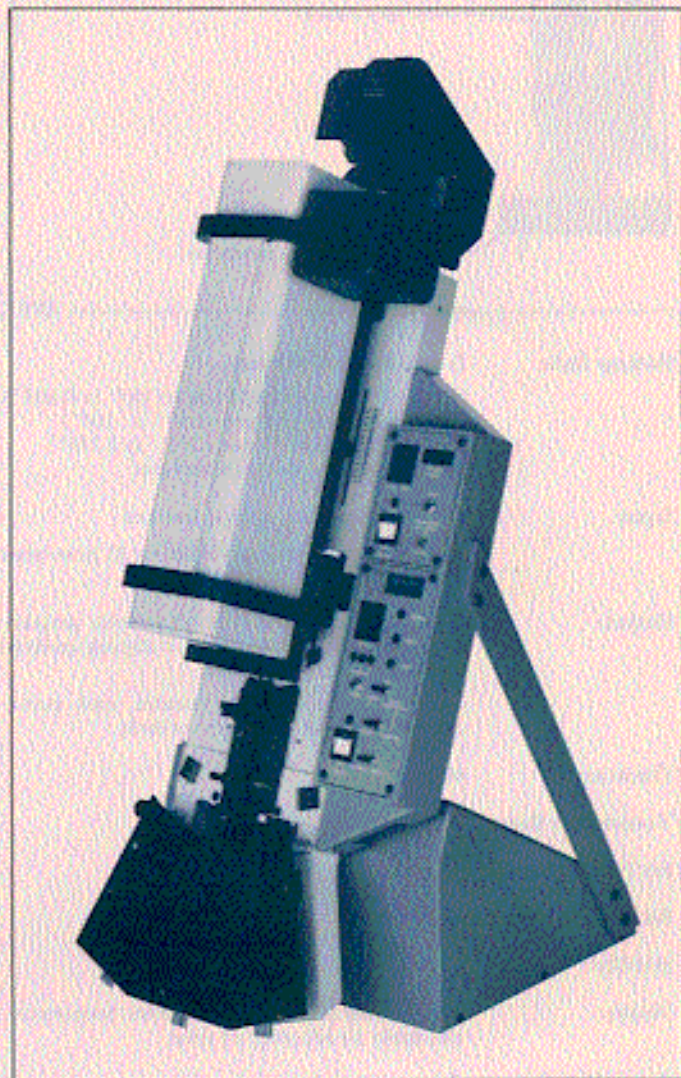
- Universal Size Capability, 6-40 leads, 300, 400, 600 mil DIPs without change kits.
- No adjustment required for mixed cerdip and plastic packages.
- Universal Input and Output eliminates the need for Tube Adaptors.
- Long-Life Solenoids* — a TRIGON-developed exclusive.
- Jam-free handling with leads-up device processing.
- 3-Sort Self-Aligning Output with Automatic Stepmover.
- No EMR during test time.
- Companion Model T-2015 available for testing at room ambient temperature.

GENERAL DESCRIPTION

The T-2045 provides for the testing of DIP devices at temperatures to 125°C. TRIGON's Loop Chamber (TLC) heats the component by enveloping all surfaces of the package in a turbulent flow of air. This method is demonstratively more effective in raising device temperature, than is heating the package solely by conduction through one surface in contact with a heated rail, and provides a substantial improvement in system throughput. The contact fingers to the device under test are sealed within the controlled environment, thereby avoiding errors accruing from the fall-off of die temperature during test time.

This unit features digital readout of both chamber temperature and set point. A soak time control is provided to regulate system cycle rate in accordance with the heating characteristics of the particular device package being tested.

The T-2045, 3-Sort Test Handler is a reliable and cost effective solution for ambient testing applications. To insure continued reliability with a minimum of maintenance, TRIGON has eliminated all complex high-speed mechanisms and reduced the number of moving elements to an absolute minimum, performing the remaining functions with long-life solenoids — a TRIGON developed exclusive.



The T-2045 Handler processes 6 to 40 leads, 0.300", 0.400" and 0.600" devices without requiring costly changeover kits. Changing from one package size to another is as simple as selecting the proper size on direct reading scales. The total system can usually be adjusted in less than 5 minutes. This size adjustment capability is not only cost effective, but produces superior processing of 6-lead mini-DIPs and other package types which fixed-size handlers frequently find extremely difficult to process reliably.

THOROUGH DOCUMENTATION

- Detailed manual contains exploded view drawings of mechanical assemblies.
- Functional schematics with complete signal source references.
- Illustrated parts lists.
- Step-by-step set-up and operating instructions.



UNRESTRICTED INTERFACE ACCESS

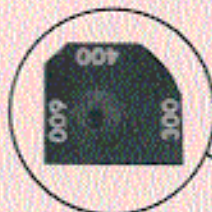
Remote test head and large tester performance boards plug directly onto contactor edgeboard.

40-Pin Kelvita Contactor

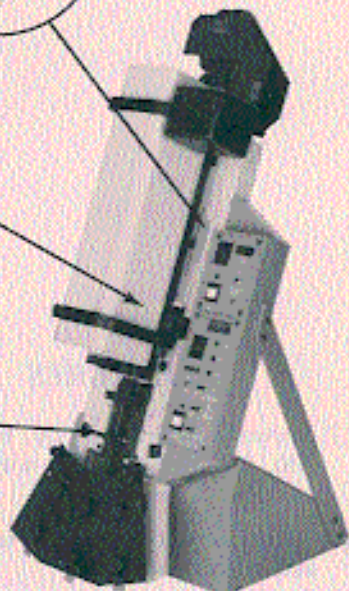
CONTROL INTERFACE CONNECTOR

QUIK-SET

Rapidly change from one device package to another using simple flip-stops and direct reading scales.



SELF-ALIGNING UNIVERSAL TUBE RETAINERS ELIMINATE TEDIOUS ADJUSTMENTS.



SPECIFICATIONS

Package Style:	Dual-in-line, 6 to 40 leads. Width: 7.62 mm to 15.24 mm (0.300" to 0.600") Thickness: 2 mm to 5 mm (0.80" to .200") Length: 9.5 mm to 57 mm (.375" to 2.250") Lead Type: Side-brazed or bent lead.
Input:	Universal Dual-Tube Swivel, Standard. Automatic Tube Handling Module for 25 loose tubes is available.
Output:	Three sorting positions with full intermix programming and automatic steppover. Self-aligning universal tube retainers in all positions. Automatic Tube Handling Modules, each accommodating 25 loose tubes, are available.
Contactor:	40 lead, Kelvin.
Temperature Range:	To 125° Celsius.
Set Point Accuracy:	± 1.5° Celsius
Set Point Resolution:	1° Celsius
Stability:	± 1.5° Celsius
Display:	3 digit LED indicator for chamber temperature, switchable for adjusting set point.
Sensor Location:	Contactor Test Site.
Overtemp Control:	Safety cutoff at 165° Celsius.

Soak Time Control:	0 to 99 seconds selectable with 2-decade digital switch.
Chamber Storage Capacity:	Approximately 12 inches.
Throughput:	Ambient: 5000-7000 UPH @ zero test time. Typical for 300 mil, 14 lead device. Temperature: Maximum handler cycle rate at "0" soak time.
Utilities:	Electrical: 105-125 or 210-260 volts 50/60 Hz, Switch Selectable. No air required.
Dimensions:	Height: 86.4 cm (34") Base Width: 33.0 cm (13") Base Depth: 53.3 cm (21") Weight: 30 KG (65 lbs.)

TESTER INTERFACE

Two cables interconnect TRIGON T-2000 Series Handlers to an automatic tester. A control cable which carries all Tester and Handler interface control signals, and a Contactor cable interconnecting the Tester performance board and the T-2000 Contactor. One set of Handler mating connectors is shipped with each unit.

All control signals are optically isolated and may be either negative or positive true. The Handler issues a 40 msec Start Test pulse. Inputs to the Handler consist of an End-Of-Test pulse and a Sort pulse, indicating the desired output sort position.



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