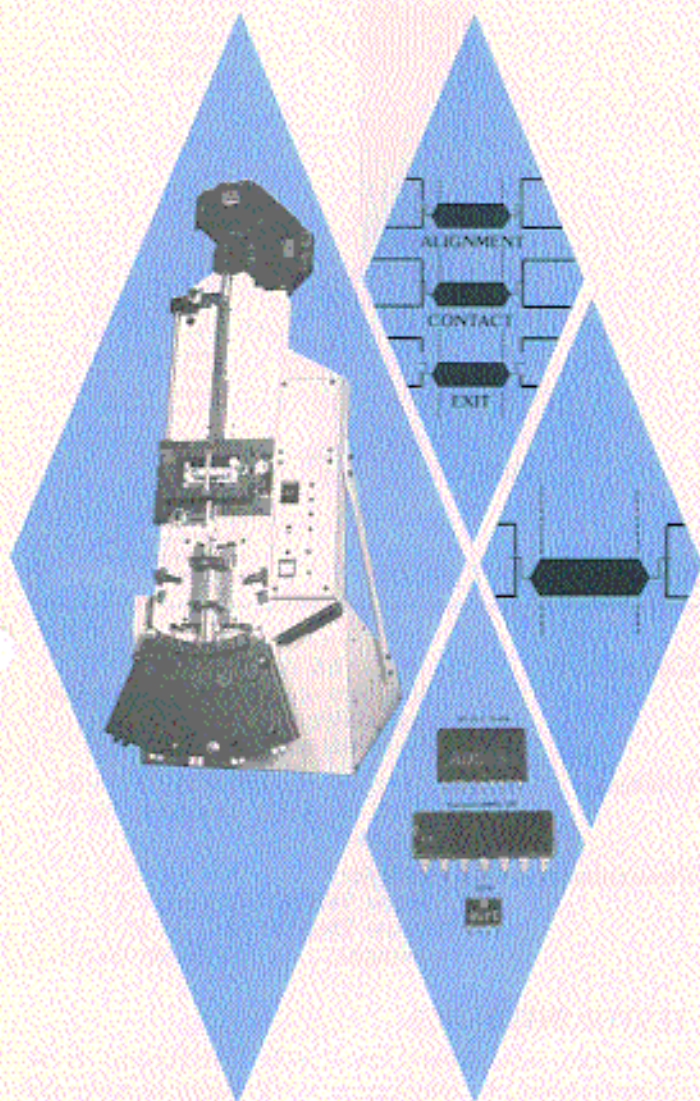


T-2030 SO Device Test Handler



Exclusive Tri-State* Mechanism...

This unique Trigon handling innovation provides three distinct operations within a single assembly. In the first state, precise device alignment is achieved; in the second state, positive Kelvin contact is made; and in the third state, after testing is completed, the device is allowed to flow freely into the output sorter.

Provides True Kelvin Contact...

This most precise system of electro-mechanical lead registration and test is available only on the Trigon T-2030. It permits not only a true Kelvin type measurement in critical test applications, but may be alternatively connected to provide redundant contacts when this mode is preferred.

Handles Newest SO Packages...

The smallest new SO packages present no problem for T-2030. The Tri-State contactor assembly protects the contact fingers against damage through mis-alignment or operator probing and provides a self-registering assembly which maintains required alignment and planarity at all times.

*Patent applied for

THE LARGE-CAPACITY, HEAVY-DUTY SO HANDLER FOR HIGH VOLUME TESTING APPLICATIONS

The Trigon T-2030 SO device test handler combines a totally new type of contacting mechanism with a processing system of proven reliability in customer applications throughout the world. Each element of the T-2030 is designed to assure continuous reliable service under the frequently severe environments encountered in production test applications. TRIGON has eliminated all complex high-speed mechanisms, reducing the number of moving elements to an absolute minimum and performing the required mechanical functions with *long-life solenoids* (a TRIGON-developed exclusive).

- Handles a large variety of package sizes
- High throughput rate (6000 UPH parallel including 75 msec free test time, 5000 UPH serial at zero test time)
- Fail-safe sorting via a system of triple inter-locks.
- Heavy-duty mechanisms and long-life solenoids (a TRIGON EXCLUSIVE)
- No EMR during test time
- Five-sort programmable outputs

T-2030 TEST HANDLER DETAIL

Front View



THOROUGH DOCUMENTATION
Detailed Manual contains:
- Exploded view drawings of mechanical assemblies
- Functional schematics with complete signal and source references
- Illustrated parts list
- Step-by-step set-up and operating instructions

Rear View



EASY INTERFACE ACCESS. Remote test head and large tester performance boards plug directly into full Kelvin contact edgeboards.

SECURE SUPERVISORY CONTROLS are located inside for sorting programs, reset selection and parallel or serial mode select.

CONTROL INTERFACE CONNECTOR allows compatibility with peripheral test equipment.

FORCE ADJUSTMENT KNOB allows minute adjustment of contact pressure



CONTACT FINGERS provide precise alignment and positive Kelvin contact



OUTPUT INDICATORS. Dual function lamps flash to indicate full tube; remain steady when tube is not in place.

FAIL-SAFE SORTING. Triple interlocks prevent mis-binning

SELF-ALIGNING OUTPUT eliminates tedious adjustments

T-2030 TEST HANDLER SPECIFICATIONS

SPECIFICATIONS:

	T-2030-1	T-2030-2
Package Style:	SO, 18 leads. "L" Profile	8, 14, 16 and 18 leads
Width:	7.75 mm (0.305")	3.94 mm (0.155")
Thickness:	2.03 mm (0.080")	1.40 mm (0.055")
Length:	To 1.22 mm (0.480")	To 9.90 mm (0.390")
Lead Type:	Flat-form for reflow solder attachment, on 0.050" centers	
Other Sizes:	Contact factory for quotation.	
Throughput:	Parallel Mode: 6000 UPH including 75 msec free test time. Serial Mode: 5000 UPH at zero test time. Typical for 18 lead device packages.	
Input:	Dual-Tube Swivel, standard Automatic Tube Handling Module for 50 tubes, optional.	
Output:	5 sorting positions with full intermix programming and automatic stepover. Tube-In-Place Detector, Jam Sensor and Sorter Position Interlock Detector for each output position. Automatic Tube Handling Modules, each accommodating 50 tubes, optional.	

Contactors: 18 lead full Kelvin.
Beryllium copper with rhodium and gold plating.
Force adjustable to 35 grams.

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 the T-2030 Test Handler 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-2030 contactor edgeboards. 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 a sort category signal which may be either pulse or level, and an optional END-OF-TEST pulse.



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