

# SCIENTIFIC TEST, INC.

## PRODUCT LISTING

Part Number	Description
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### 5000E/5300HX SYSTEMS

**Call or e-mail for pricing/quote**

5000E	Discrete Semiconductor Tester .....	Under 23,000
5300HX	Discrete Semiconductor Tester	

**Standard features for 5000E and 5300HX systems include:**

1NA to 50A, 1kV

The 5000E has all 5300HX features and specifications, except available options as noted.

**HX ONLY OPTIONS:**

LC-1000	Low Current Deck (20PA/1PA Resolution)
HC-500	500 Amp High Current Deck
HC-1000	1000 Amp High Current Deck
HC-1200	1200 Amp High Current Deck, 10V@1200A, at the terminals.
HC-1.5/400	1.5 Amp High Current Option, (@400V for I <sub>BO</sub> )
ADP-340-4	Transient Surge 5 Pin Module Test Station
ADP-340-5 <sup>2</sup>	Transient Surge 5 Pin Module (or SSOVP) Test Station with Tip-Com, Ring-Com, Tip-Ring, includes 100V/us test. (V <sub>BO</sub> , I <sub>BO</sub> , I <sub>H</sub> , V <sub>T</sub> , R <sub>COIL</sub> , V <sub>L</sub> , V <sub>B</sub> , V <sub>Z</sub> , and I <sub>D</sub> )
ADP-340-5G <sup>2</sup>	Same as ADP-340-5 plus Gated Device Option (I <sub>GT</sub> , V <sub>GT</sub> , V <sub>F</sub> , I <sub>D</sub> , V <sub>BO</sub> , I <sub>BO</sub> , I <sub>H</sub> , V <sub>T</sub> , I <sub>R</sub> , I <sub>G</sub> )
ADP-SURG	Adds 10x1000 μS 10A test to ADP-340
ADP-360 <sup>2</sup>	Adaptor to test: 1.Transient Surge devices(SSOVP), 2.Sidacs, 3.Diacs
ADP-410	Inductive sustaining Test Adaptor. (V <sub>CEOSUS</sub> , V <sub>CERSUS</sub> , V <sub>CESUS</sub> , I <sub>CEV</sub> ) to 4A, 1600V

### HI VOLTAGE OPTIONS

HVA-2000 <sup>1</sup>	2000 Volt Anode/Collector Option, (1000 volts standard)
HVG-80 <sup>1</sup>	80 Volt Gate/Base Option, Recommended for high gate voltage MOSFET's, 20 volts standard
AUX-150	Auxiliary 150V Power Supply for Impulse Reset Test and 10x1000 μS

### HI CURRENT OPTION

HC-100	100 Amp Mainframe
<b>MULTIPLEXER</b>	
MUX-3S	3 Output Multiplexer, includes Kelvin and 3 Handler Interface Boards
MUX-4S	4 Output Multiplexer, includes Kelvin and 4 Handler Interface Boards
MUX-STA	Mux Station, displays sort/bin result; can be used as Manual Station or as feed to Handler

### SCANNER

6010	Automatic Programmable per step Scanner for multiple device packages Includes one 4 device scanner board, 5 scanner board capability.
6010-4	Additional 4 device scanner board
ADP-401	Scanner for 4, 8, or 16 pin Opto Coupler DIP
ADP-401A-8	Scanner for 8 pins Totally Programmable
ADP-401A-16	Scanner for 16 pins Totally Programmable
ADP-401A-24	Scanner for 24 pins Totally Programmable

### DEVICE ADAPTORS

ADP-310	Opto-Coupler Adaptor, requires an Opto test fixture. (See Opto-Coupler Fixture)
ADP-310B	Same as above(ADP-310) with provisions for Handler Cable (HCB-310B) w/base break
ADP-320	Regulator (3 terminal) Adaptor, requires a test fixture. (See Test Fixture)
ADP-350	Quadrac/Diac Test Adaptor, requires a test fixture. (See Test Fixture)

<sup>1</sup> Factory Installation Required.

Prices shown are in US Dollars.

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<b>Part Number</b>	<b>Description</b>
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ADP-365	Adaptor to test: 1.Sidacs, 2.Diacs
ADP-370	8 pin dip Opto Logic Device Adaptor
ADP-380	Kelvin Adaptor, for use with any 5000 Series System (accepts standard test fixtures)
ADP-390	Relay Test Adaptor, (R <sub>COIL</sub> , V <sub>OPER</sub> , V <sub>REL</sub> , R <sub>CONT</sub> , OP <sub>TIME</sub> , REL <sub>TIME</sub> )

### **INTERFACE BOARDS**

EXT-200	External Control Board. Provides SOT test, receives EOT and Pass/Fail, 15 Relay Drivers
PI-200	Prober Interface Card

### **ACCESSORIES**

AC-101	External load mount jack
AC-200/50	Extra Operations Manual (on <b>CD, PDF Format</b> , schematics not included)
AC-200/53	Extra Operations Manual ( <b>Printed Format</b> , schematics not included)
SCH-100	Schematics for Operations Manual ( <b>Printed Format</b> )
AC-300	Extra extender card and cables for servicing/calibration of test system PCB's
AC-500/53	Software/Firmware Upgrade, (for systems using Windows® Software)
PC-CUST	PC™ Computers can be ordered in various configurations
IEEE-488	GPIB Interface board to remote controller
AC-WIN	Windows® Upgrade, (for Systems with DOS® Software) (May require hardware upgrade)
SP-100	Relay Spares Kit
SP-300	Repair Spares Kit (Includes the Relay Spares Kit)
DSP-100	Remote Start with Display

### **SOFTWARE OPTIONS**

SW-MAP	Wafer Mapping Option (Includes Software/Firmware) Map of Bin, Sort or Test Result
SW-HIREL	Hi Rel Software Option (Delta percent testing including on-line delta testing with re-test capability.)
SW-CURVE	Auto Generate Curve Trace

### **CABLES**

***(Device cable and Control cable recommended for use with Handler/Prober)***

HAC-100	9 Pin Null Modem
HCB-100	Handler Device Cable, 6ft with Kelvin configuration
HCB-100-B	Handler Device Cable, 6ft with Kelvin configuration and Base Break
HCB-125	LC-1000 Control Cable, 6ft (50p Centronics to 50p Centronics)
HCB-150	LC-1000 Handler Device Cable, 6ft
HCB-150-B	LC-1000 Handler Device Cable, 6ft with Base Break
HCB-500	HC-500 Handler Device Cable, 6ft (200A max)
HCB-300	Handler Device Cable for Mux, 6ft, (Circular to Unterminated configuration)
HCB-301	Interconnect Cable Tester to HCD, LCD or Adaptor 4.6ft (included w/purchase of new eq)
HCB-301K	Interconnect Cable HCB-301 with Kelvin
HCB-350	Handler Device Cable for Mux, 6ft, (Circular to Adaptor configuration)
HCB-310B	Handler Device Cable from ADP-310, (Adaptor to Unterminated leads with base break relay)
HCB-410	Handler Device Cable from ADP-410, (Adaptor to Unterminated leads)
HCB-200	Handler Control Cable, 6ft, (SOT, EOT, Fail, Bins, etc...)
HCB-360	Extension Cable for 9 Pin D-sub
HCB-401-8	Handler Device Cable for ADP-401A-8 Scanner
HCB-340-5	Handler Device Cable for ADP-340-5-G

### **PCB's and TRAINING**

Consult Factory

<sup>2</sup> Requires HVA-2000.

**TEST FIXTURES**

**Self-Test Fixtures**

ST-100	Self Test Fixture for 5000 Series (included w/purchase of new Tester)
ST-200	Self Test Fixture for Low Current Deck (included w/purchase of new Low Current Deck)
ST-300	Self Test Fixture for Multiplexer (included w/purchase of new Multiplexer)
ST-345	Self Test Fixture for ADP-340-5 or ADP-340-5-G (included w/purchase of new ADP-340-5)
ST-601	Self Test Fixture for ADP401A (included w/purchase of new ADP-401A)

**Discrete Test Fixtures (K in prefix denotes Kelvin dual contacts for drive and sense)**

Discrete Fixtures

FXK-T220	TO-220/218 (A Version Anode Center Pin) (G Version Gate Center Pin) (w/Kelvin)
FX-T72	TO-72, Four Leaded Socket (A Version Anode/Drain Center Pin)
FXK-T5/18	TO-5/18G, (G Version Gate Center Pin)(w/Kelvin)
FX-T92	TO-92, (G Version Gate Center Pin)
FXK-T3/66	TO-3/66, (Lead dia. Less Than 0.060 in., for Collector Current Less Than 25 Amps)(w/Kelvin)
FXK-T3/P	TO-3/P, (G Version Gate Center Pin)(w/Kelvin)
FXK-AXS	Axial Small Diode, (Lead Dia. up to 0.040 in.)(w/Kelvin)
FXK-AXL	Axial Large Diode, (Lead Dia. up to 0.050 in.)(w/Kelvin)
FXK-D4/5	DO-4/5, ¼" Stud Diode with Stud (A Version Anode on Stud) (C Version Cathode on Stud)(w/Kelvin)

**Discrete Opto-Coupler Test Fixtures**

OPTO Fixtures

OPT-T56	6 Pin Can (TO-5) Single Opto Device
OPT-T58	8 Pin Can (TO-5) Dual Opto Device, (Manually Switched)
OPT-DP6	6 Pin Dip Opto Device, (Same as Upper Half of OPT-DP68)
OPT-DP68	6 or 8 Pin Dip Opto Device, (Manually Switched)
OPT-6N139	8 Pin Dip Opto-Coupler, (relays software selectable, requires external P/S)

**Surface Mount Test Fixtures (K in prefix denotes Kelvin)**

Surface Mount Fixtures

Surface Mount Fixtures (w/Kelvin)

SM-SOT23 <sup>1</sup>	SOT-23 Package
SMK-SOT23 <sup>1</sup>	SOT-23 Package (w/Kelvin)
SMK-SOT24 <sup>1</sup>	SOT-24 Package (w/Kelvin)
SMK-SOT25 <sup>1</sup>	SOT- 25 Package (w/Kelvin)
SMK-SOT26 <sup>1</sup>	SOT- 26 Package (w/Kelvin)
SM-DPAK <sup>1</sup>	D-PAK or TO-252 Package (Transistor)
SM-SOT89 <sup>1</sup>	SOT-89 or TO-243 Package (Transistor)
SM-D2PAK <sup>1</sup>	D <sup>2</sup> -PAK Package
SM-SOT223 <sup>1</sup>	SOT-223 or TO-261 Package (MOSFET)
SMK-SMA	SMA Package (w/Kelvin)
SMK-SMB	SMB Package (w/Kelvin)
SMK-SMC	SMC Package
SMK-MELF	Melf Package (Diode) (w/Kelvin)
SMK-MINIM	Mini-Melf Package (Diode) (w/Kelvin)
SMK-MICRM	Micro-Melf Package (Diode) (w/Kelvin)

Sketches: Show number of pins and positions of pins. Sketches DO NOT INDICATE PHYSICAL OUTLINE. See specific package drawing.

<sup>1</sup> Part specifications, package drawing and/or pin assignments to be furnished by Customer prior to ordering. Sockets must be available. Delivery time is stock to 8 weeks. Call factory for exact delivery date. Consult factory for schematics, usability, and custom wiring.

**TEST FIXTURES Continued**

SMK-QUADM	Quadro-Melf Package (Diode) (w/Kelvin)
SM-SO-4 <sup>1</sup>	SO-4 Package
SM-SO-6 <sup>1</sup>	SO-6 Package
SM-SO-8 <sup>1</sup>	SO-8 Package
SM-SO-12 <sup>1</sup>	SO-12 Package
SM-SO-16 <sup>1</sup>	SO-16 Package
SM-SOD123	SOD-123 Package
SMK-SD3232	SOD-323 (2 Lead) Package (w/Kelvin)
SM-SOD80	SOD-80 Package

<sup>1</sup> Part specifications, package drawing and/or pin assignments to be furnished by Customer prior to ordering. Sockets must be available. Delivery time is stock to 8 weeks. Call factory for exact delivery date. Consult factory for schematics, usability, and custom wiring.

**Personality Fixtures** (for Programmable Scanners)

FX-8P	2 to 8 Pin Test Fixture for ADP-401A-8 (any available 2 to 8 pin socket)
FX-8P-BLNK	Blank Test Fixture for ADP-401A-8
FX-16P	2 to 16 Pin Test Fixture for ADP-401A-16 (any available 2 to 16 pin socket)
FX-16P-BLNK	Blank Test Fixture for ADP-401A-16
FX-24P	2 to 24 Pin Test Fixture for ADP-401A-16 (any available 2 to 24 pin socket)
FX-VCC	Adds Pin Assignable VCC and Logic 1 and 0 to FX-8P, FX-16P

**Test Fixture Accessories**

FX-CUST	Custom Test Fixture (Socket must be available and device spec. provided)
FX-BLNK	Blank fixture enclosure, drilled (includes jacks, ferrite beads, coil)
FX-COIL	Oscillation Suppression Coil
FX-SCKT	Replacement sockets for fixtures are available

**SERVICE**

**PCB's**

Checkout charge for Individual board  
 Repair for Individual board, includes 2 normal faults<sup>2</sup>

**TESTER**

Checkout charge for any system  
 Repair for 5000 Series Test System, includes 3 normal faults<sup>2</sup>  
 Repair for 5000 Series Test System, includes 3 normal faults<sup>2</sup> (for systems with S/N 329 and below)  
 Calibration for 5000 Series System, includes self-test fixture verification  
 Calibration for 5000 Series System, includes self-test fixture verification (for systems with S/N 329 and below)

**LCD**

Repair for Low Current Deck, LC-1000, includes 2 normal faults<sup>2</sup>  
 Calibration for LC-1000, includes verification of self-test fixture, requires 5000 Series System and all cables

**HCD**

Repair for High Current Deck, HC-500, includes 3 normal faults<sup>2</sup>  
 Calibration for HC-500, requires 5000 Series System and all cables  
 Repair for High Current Deck, HC-1000, includes 3 normal faults<sup>2</sup>  
 Calibration for HC-1000, requires 5000 Series System and all cables

For all other repairs contact factory.

<sup>2</sup> Misuse, missing parts, wrong parts installed by Customer, and CPU repair will be extra. Prices subject to change without notice. Delivery time is stock to 8 weeks. Call for exact delivery date. Consult factory for schematics, usability, and custom wiring. Windows® is a registered trademark or trademark of Microsoft Corporation in the United States and /or other countries.

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\*Prices subject to change without notice.

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