Accessibility Probes and Impact Testers

Test Probe Kits

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<td>ITB-01</td>
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<td>BPT-01</td>
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<td>TPP-01</td>
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<tr>
<td>TTP-01</td>
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<td>HLP-01</td>
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Model TPK-01: Short Test Pin Probe

Used to test accessibility through enclosure openings per IEC, EN, UL and CSA Standards. Body is Delrin, tip is stainless steel.

NOTE: Don't ever purchase an all plastic version - the tip is too narrow to maintain tip rigidity!

IEC 950
IEC 601
IEC 1010
IEC 335
Model TPP-02: Long Test Pin Probe

This pin is used on appliances for verifying that there is no access to hazardous live parts of heating elements which could be touched accidentally by a tool (i.e. screwdriver). Meets IEC & EN requirements. Body is Delrin, tip is stainless steel.

IEC 335

Model UFP-01: Rigid Finger Probe

A “rigid” version of the International Test Finger, model TFP-01, (see next page). Used for force applications on openings (i.e. vents) as required by IEC, EN, UL and CSA Standards. Handle made of Delrin, rigid finger made of chrome plated steel.

IEC 950
IEC 601
IEC 1010
IEC 335

Model TRP-02: 1.0mm Test Wire

Used to verify protection of persons against access with a wire. Meets IEC and EN Standards including IEC 529 for IP4 and suffix D codes. The handle and stop face are made of Delrin. The wire is made of stainless steel.

IEC 529 IP
Model TRP-01: 2.5mm Test Rod

Used to verify the protection of persons against access to hazardous parts. Also used to verify the protection against access with a tool. Meets IEC and EN Standards including IEC 529 for IP3 and suffix C codes. The handle and stop face are made of Delrin. The rod is made of stainless steel.

IEC 529 IP

Model PCP-01: 3.0mm Preset Controls Probe

Used to verify protection against access to hazardous parts by use of a tool through holes which give access to preset controls. Meets IEC, EN, UL and CSA Standards including IEC 1010, EN 61010-1, UL 3101-1, UL 3111-1 and CSA 1010-1. The handle and stop face are made of Delrin. The rod is stainless steel.

IEC 1010

Model HLP-01: 4.0mm Hazardous Live Parts Probe

Used to verify protection against access to hazardous parts through top openings. Meets IEC, EN, UL and CSA Standards including IEC 1010, EN61010-1, UL3101-1, and CSA 1010-1. The handle and stop face are made of Delrin. The rod is made of stainless steel.

IEC 601

IEC 1010
Model TFP-01: Test Finger Probe

This is the “International” test finger required by most IEC, EN and CSA Standards, in addition to many UL Standards. Built in strict accordance to the newest requirements - with integral palm simulator. This is the ONLY Finger Probe available with a integral jack in the handle for continuity testing - as mandated by the IEC CB Scheme. Finger made of chrome plated steel. All parts precision machined.

IEC 950
IEC 601
IEC 1010
IEC 335
IEC 529 IP

Model ULP-01: UL Finger Probe

This is the “UL” test finger, researched and designed by UL and required by most UL Standards. Palm simulator and restricted joint movement simulates human finger movement. Made of all nylon. Bell-Core accessory available.

IEC 529 IP

Model ULP-02: Articulated Probe with Discs

Probe is required by GR-1089-CORE. Probe is plastic with 2 precision Delrin® disks. The disks are positioned at 35 mm. and 9 mm. from the top of probe. It is used to verify protection from hazardous parts.
Model THN-01: Test Thorn Probe

For testing accessibility in appliances with visibly glowing heating elements. Also for testing parts supporting such elements. Complies with IEC, EN, UL & CSA requirements. Made entirely of stainless steel.

Model TSP-01: Test Sphere Probe

This probe is intended to verify protection of persons against access to hazardous parts for an IP1 Code. Also used to verify protection from access with the back of the hand for an IP suffix A code.

Model TSP-02: Test Sphere Probe

This sphere is intended to verify the degree of protection of enclosures for an IP2 Code per IEC 529. Sphere is hardened steel with chrome finish.
Model RTR-01: Rigidity Test Rod Probe

For testing enclosure rigidity in accordance with clause 8.1 of IEC 1010 and the EN, UL and CSA versions of this Standard. Handle is Delrin, tip is stainless steel.

Model TUP-01: Uninsulated Live Parts Probe

For testing accessibility in accordance with many UL Standards. The handle is Delrin and the tip is stainless steel.

Model EWP-01: Enameled Wire Probe

For testing accessibility in accordance with many UL Standards. In many Standards, this probe is used for access to enamel coated wire (i.e. transformers and inductors). The handle is Delrin and the tip is stainless steel.

Model HMP-01: Hazardous Moving Parts Probe

For testing accessibility to hazardous moving parts such as access to fan blades through a fan finger guard. Complies with UL Standards. Made entirely of stainless steel, weighs 1 lb.
Model CP-01: Coin Probe

Four probes in one! Used to determine accessibility to shock hazards in many household and audio/video products, including Standards UL 1410 and UL 6500. Made entirely of nickel-plated steel.

Model TH-01: Test Hook Probe

Used on enclosures prior to accessibility testing. The test hook is “hooked” into vents and seams in the enclosure & then pulled with a force (usually 20N). The hook has a hole at its long end, for use in conjunction with a PFI series Force Gauge. Made entirely of stainless steel.

IEC 601

Model FNP-01: Finger Nail Probe

For testing the requirement of snap-in devices and snap together enclosures that protect the user from accessibility to hazardous parts. Complies with most Standards including IEC 335 based Standards and UL 1025.
Model BEP-01: Blunt-End Probe  
Stainless steel probe required by various UL, CSA, IEC, and EN standards.

Model TTP-01: Telecom Test Probe  
Required by IEC, EN, and some UL and CSA standards to test accessibility to TNV circuits (telecom). The handle and stop face are Delrin, the tip is stainless steel.

Model: ITB-01 Impact Test Ball  
Complies with all IEC, EN, UL, CSA and International Standards which require a 50mm diameter, 500g impact ball. This ball is hardened steel with a chrome finish and is provided with a removable eyelet to allow for drop or pendulum use.

Model: ITB-03 Impact Test Ball  
Same as ITB-01 except 2 in. diameter, 1.18 lb.

Model: ITB-04 Impact Test Ball  
40mm in diameter with a Rockwell Hardness of at least R62 (as required by IEC60065, CL18.23)

IEC 950  
IEC 601
Model BPT-01: Ball Pressure Tester

For testing plastics to which hazardous voltage parts are mounted (i.e. terminal blacks, transformer bobbins, etc...) in accordance with most IEC, EN Standards and internationally harmonized UL and CSA Standards (950, 1010, 601, 335, etc.). The unit exerts 20N force on sample. Entirely stainless steel. NOTE - this test is required to be conducted in an oven at elevated ambient.

IEC 950

IEC 601

IEC 1010

IEC 335

Model NFB-01: Needle Flame Burner

Everything you need for the Needle flame testing requirements!

- Needle Flame Test Kits
- Burn test needles, UL-Listed gas valves, CSA-Listed gas hoses
- Infinitely-adjustable Deluxe Burn Test Apparatus (model BTA-01, pictured)
- Wire screen gauzes
- Tissue paper and cheesecloth
- Angle meters

The Needle Flame burner diameter 0.5 mm is intended for conducting burning tests. It is constructed in strict compliance with IEC Standards (i.e. IEC 65, 695-2-2, etc). It consists of a tube with a bore 0.5± 0.1mm and gas-flow regulating valve for adjustment of the flame height. It shall be used with a pressure regulator.

Flame Test Equipment
Burner: Tirril Burner meets UL, IEC and ASTM D3713 flame test. Tube Length is 100 mm above air inlets

Burner Wing Tip: Mounts to top of burner, as required for some flame tests. Slit measures approximately 48 mm by 1.3 mm.

Burner Mounting Fixture: Sets burner at 20° or 45° angle as required by most standards

Ring Stand: Provided with 2 clamps for securing/positioning test specimens and/or wire gauze.

Wire Screen/Gauze: Several types available

Impact Hammers
Required by many Standards to test the mechanical integrity of product enclosures. After applying the impact with the hammer, the product is examined with accessibility probes to determine access to shock, energy, and injury hazards. Built in exact accordance to IEC, EN, UL, CSA and other international Standards.

Product Details
- Body: Includes release mechanism and striking element guide, mass 1250 g.
- Striking element: With cocking knob and hammer head, face is polyamide, hemispherical with a radius of 10 mm, hardness of HR85-100, mass 250 g
- Release Cone: mass 60 g, 10N release force
- Impact Force: Single force and adjustable models available in impact energies of 0.20, 0.35, 0.50, 0.70 and 1.0 Nm
- Custom padded carrying case included.

Model Series 5110: Single impact force models

<table>
<thead>
<tr>
<th>Impact Energy</th>
<th>Tolerance</th>
<th>Model No.</th>
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<tbody>
<tr>
<td>0.20 J</td>
<td>±0.02J</td>
<td>5110-0.2J</td>
</tr>
<tr>
<td>0.35J</td>
<td>±0.03J</td>
<td>5110-0.35J</td>
</tr>
<tr>
<td>0.50J</td>
<td>±0.04J</td>
<td>5110-0.5J</td>
</tr>
<tr>
<td>0.70J</td>
<td>±0.05J</td>
<td>5110-0.7J</td>
</tr>
<tr>
<td>1.0J</td>
<td>±0.05J</td>
<td>5110-1.0J</td>
</tr>
</tbody>
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Model F22.50: Adjustable force model (provided w/all 5 settings)

Calibration: Supplied ready for operation, including certificate confirming calibration by means of a calibration device according to IEC 68-2-63 / 1991 Appendix A.