SCR ELEKTRONIKS

SALES PRESENTATION FOR

TESTING EQUIPMENTS FOR IRON











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LIST OF TEST EQUIPMENT

- **Routine / Lab Test:**
  1. ENDURANCE TEST SETUP FOR THERMOSTAT OF IRON
  2. ENDURANCE TEST SETUP FOR IRON
  3. PC BASED ELECTRIC IRON TESTER
  4. SAFETY TEST PANEL FOR IRON
  5. TEST SET UP TO CHECK TEMPERATURE DISTRIBUTION OF IRON
  6. DIGITAL TEMPERATURE INDICATOR & THERMOCOUPLE SENSOR
  7. VARIABLE VOLTAGE SOURCE
  8. EARTH CONTACT RESISTANCE TESTER
  9. GLOW WIRE TEST APPARATUS
  10. ENVIRONMENTAL TEST CHAMBER
  11. LABORATORY OVEN
- **Mechanical Test:**
  1. APPARATUS FOR CHECKING STEAM EMISSION KNOB FOR 50000 CYCLES
  2. CORD GRIP TEST APPARATUS
  3. CORD GUARD FLEXING TEST PANEL
  4. IMPACT TEST APPARATUS IS 3854 1997 CLAUSE NO. 20 (FIG. 15)
  5. BALL PRESSURE TEST APPARATUS AS PER IS 8828
  6. DROP TEST APPARATUS
  7. SPRING HAMMER IMPACT TESTER

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1. ENDURANCE TEST SETUP FOR THERMOSTAT OF IRON

- **What It Is ?**
  - SCR ELEKTRONIKS have developed ENDURANCE TEST SETUP FOR THERMOSTAT OF IRON which is used for carrying out endurance test for thermostat of iron for the required amount of time.
  - It consists of Voltmeter, Wattmeter, Programmable Logic Controller (PLC).
  - The equipment continuously monitors faults like Contact weld and Contact Open.
- **Models Available :**
  - The test bench can be customized w r t number of stations and wattage range of the iron.

Basic Specifications :

- Digital Voltmeter – 0 to 300V AC – 4 Nos.
- Digital Ammeter – 0 to 10.00Amp AC – 4 Nos.
- Digital Wattmeter - 0 to 2000W AC. - 4 Nos.
- Digital Timer to set ON time and to store ON/OFF cycles of the thermostat. - 1 No.
- The ON/OFF operation of iron will be detected by current sensing and the cycles will be displayed on Digital Display. One can set maximum no, of cycles (0 to 9999) or ON Time, after this the test will be terminated. In case the welding of contact i.e. It is on for long time without OFF condition or for contact i.e. No current for long time. The test will be terminated declaring Fail.
- Contact Weld & Open Detection and indication circuits – 4 sets.
- Input supply 240V AC (From Mains Supply directly) with MCB protection.
- Output on 6 pin 16A sockets with 1 pole MCB protection. - 4 Nos.
- Contactors for making ON/OFF the output – 4 Nos.

Salient Features :

- Micro Controller based programmable timer.
- Lamps to indicate Fault conditions
- TEST OVER indication with Alarm at the end of the tests.
- Lamp Indication for both the stations :
  - a) Test ON
  - b) Contact Open
  - c) Contact Weld
  - d) Test Over

Key Benefits :

- The tester performs endurance test of the iron w r t the pre-set parameters.
- The test bench checks for two failure conditions - Contact Weld (passage of current during off time) and contact open (interrupted current during on time)

- **Key Photos :**

Endurance Test Panel

2. ENDURANCE TEST SETUP FOR IRON

- **What It Is ?**
  - ***SCR ELEKTRONIKS*** have developed ***PC BASED 6 STATION ENDURANCE TEST SET UP FOR IRONS*** which is used for carrying out endurance & temperature measurement test of thermostat of iron.
  - It consists of Voltmeter, Wattmeter, Ammeters & Programmable Logic Controller(PLC) for 6 stations.
  - The equipment continuously monitors faults like Current Open, Overshoot temperature.
- **Models Available :**
  - Can be customized as per the number of stations
  - Can be designed as, for example, 4 stations for one type of iron and the remaining 2 stations for a different type of iron – Still, tests can be simultaneously conducted on different irons

- **Basic Specifications :**

  - Single Phase Input Supply with MCCB protection.
  - 0-300V Test Voltage Display On PC.
  - 0-2000W Display On PC. (Each for 6 stations)
  - 0-10.00 A Current Display On PC.(Each for 6 stations)
  - 24 Temperature channel (0 to 250deg) Provided on PC
  - PC mode selection.

Salient Features :

- PC based testing
- Temperature sensing and cyclic tests
- Software will have user hierarchy, password control, pre-configured recipies, actual online test results and reports exportable to database
- Prominent lamp and other indications
- Fixtures are custom made

Key Benefits :

- It is very useful and handy in line testing on Mass production line as well as type Testing.
- User friendly operations make the equipment to be handled easier for any operator.
- Validates an important parameter – temperature distribution is checked for each iron – adds to product consistency and brand value

- **Key Photos :**

6 Station Endurance Test Panel

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3. PC BASED ELECTRIC IRON TESTER

- **What It Is?**
  - SCR ELEKTRONIKS make PC Based Test Setup for Electric Iron Testing is useful to carry out various tests mentioned in IS 366:1991 clauses 10,11,12,13 & 14 on the Iron under test.
  - The Test Set Up will carry out the following tests:
    1. Heating Up Time Test
    2. Sole Plate Temperature Test
    3. Temperature Distribution Test
    4. Initial Over Swing/Excess Heating/Cyclic Fluctuation Test

- **Models Available :**
  - User may order with limited / all tests
  - PC based with automatic recording of parameters and curve plotting

Basic Specifications :

- Auto save in SQL Server Database
- Operates on 220 V +/- 10% Supply
- Equipment is enabled to check performance of electric iron.
- Equipment rating is 300V/8A
- Provision for auto / manual mode.
- Pass fail indications on PC.
- Specially designed spring loaded sensors.
- Maximum Temperature : 450 Deg.C.

Salient Features :

- Interface Module to read the temperature at 6 different points.
- Thermocouple sensors –6 no. Chromium Aluminium Sensors have been provided so as to sense the temperatures at different points of Iron under test.
- PC system with User-friendly Software so as to allow the operator to carry out various tests on Iron easily.
- The user can customize the position of the temperature measurement unit
- Fixture will be custom made to fit different types of samples

Key Benefits :

- Flexible Mechanical Fixture is provided in such a way that Iron of any size can be accommodated.
- The tester is used to test different temperature tests (heating up time test, temperature distribution test, sole plate temperature test, and Initial Over Swing/Excess Heating/Cyclic Fluctuation Test) for a domestic iron. Thus, it indirectly tests the bimetallic characteristics of the element inside the iron

- **Key Photos :**

Pc Based Electric Iron Tester

4. SAFETY TEST PANEL FOR IRON

- **What It Is ?**
  - **SCR ELEKTRONIKS** introduces *Automatic Safety Test Panel.* The tests are performed as prescribed in IS302-1979. It is the most important and bought out item in the domestic iron routine testing
  - The tests that are performed are : Earth Contact Resistance Test , High Voltage Test , Insulation Test , Earth Leakage Current Test. The panel carries out different tests one by one and provides indication of the Test results as OK or NOT-OK.

- **Models Available :**
  - PC based / microcontroller based as per the customers wish
  - The tester can be customized for maximum values of high voltage, insulation resistance, earth bond current, and the rated current / wattage

Basic Specifications :

- Adjustable High Voltage, 0 to 2 KV for HV test.
- Variable Current Source 0 to 25 A for Earth Contact Test.
- Parameter limit setting for different tests.
- Digital meters: 3-1/2 digit for all the tests to indicate different parameters.
- Leakage Current checked for both the polarities.
- Individual / ALL test selection.

Salient Features :

- Micro-Controller based Digital Sequential Timer to set the duration of the test.
- Lamps to indicate test results namely : OK and NOT OK
- TEST OVER indication with Alarm at the end of the tests and at Fault conditions
- The total time for entire testing is less than 20 seconds.
- Easy to connect terminal socket set for quick connection of sample

Key Benefits :

- It is very useful and handy in line testing on Mass production line as well as type Testing – But is mostly used in routine testing
- The entire system is designed for a quick production output – Thus there is a high yield
- User friendly operations make the equipment to be handled easier for any operator – Both in PC based and microcontroller based
- It avoids the connections and disconnections of the product for different tests – All the connections, once plugged in, are automatic and contactor based
- Can be used as an individual HV tester, Earth Bond Tester, Leakage Current Tester
- More parameters, like temperature of base plate, etc. can be integrated if desired
- All in one bench with robust esign makes it extremely popular and reliable for production factories

- **Key Photos :**

Safety Test Panel For Iron

5. TEST SET UP TO CHECK TEMPERATURE DISTRIBUTION OF IRON

- **What It Is?**
  - *As the name suggests,* it consists of constant voltage source with voltage stabilizer, which maintains the voltage with + / - 3 % of set value with Digital indication. Digital Temperature indicator having six channels for temperature measurement. Cr/Al type of thermocouple sensors are used for temperature sensing. Digital Meter used to indicate Voltage, Current, Wattage.

- **Models Available :**
  - The panel is fabricated using extruded aluminum sections & CR CA Sheets and powder coated for superior finish. Three Terminals are brought out for output connections in front of the panel.
  - This panel is Table Top Mounting Type. The design is such that after removing Back side cover entire panel can be serviced easily during maintenance.

Basic Specifications :

- Input Supply: 230V, 6A Max. AC + / - 10%, 50Hz.
- Output: Voltage Source 0 to 250V/8A Max.
- Current Ratings : 8 Amp maximum.
- Regulation : +/- 1% of set value.
- Digital Meters to indicate Voltage, Current, Wattage.
- Digital Temperature Indicator: 3-1/2 Digits, 6 Channels, range – 0 to 400 ˚C.
- Output Set Voltage Adjustment provision.

Salient Features :

- Perfect System Integration at a low cost
- It can be made available at more number of stations
- PC based option will come with comparative and statistical analysis – with database, user comments, etc.

Key Benefits :

- The user can use this for Critical R&D – Validating his / her own designs
- Useful in choosing the appropriate vendors for components – The user can compare various components which are key to this test bench
- User can use the test bench for sampling and ‘consistency’ – It can be used to randomly pick a sample from the batch and compare its results
- Useful product for commercial test labs and R&D centers

- **Key Photos :**

Test Set Up To Check Temperature Distribution Of Iron

6. DIGITAL TEMPERATURE INDICATOR & CR/AL (K TYPE) THERMOCOUPLE SENSOR

- **Digital Temperature Indicator:**
  - For 'K' Type Sensor
  - 6 Channels
  - With 0.5 LED Display
  - Least Count 0.1°C
  - Temp. Range 0 to 200 Deg. C
  - Switch Selectable

- **CR/AL (K Type) Thermocouple Sensor:**
  - With Bid Type Junction
  - 3 meter long Teflon Coated Wire

- **Key Photos :**

Digital Temperature Indicator

7. VARIABLE VOLTAGE SOURCE

- **What It Is?**
  - SCR ELEKTRONIKS have developed Variable Voltage Source for carrying out performance test of Unit Under Test. It consists of Voltmeter, Ammeter, Wattmeter and Frequency meter for observing the values of different parameters.
  - Output terminals are provided for quick connection and disconnection of the equipment to be tested.

- **Features & Specifications:**
  - Input Supply : 230V +/- 10% AC Single Phase.
  - Digital Voltmeter : True RMS 3 ½ digit,0-270V AC.
  - Digital Ammeter : True RMS 3 ½ digit, 0 to 10.00 A.
  - Digital Wattmeter : 3 ½ digit, 0-1000 W AC.
  - Digital Frequency Meter : 40 to 60 Hz.

- **Key Photos :**

Variable Voltage Source

8. EARTH CONTACT RESISTANCE TESTER

- **What It Is?**
  - To ensure the safety of operator it is essential that the Earth path (connection) should offer minimum impedance to by pass short circuit Current to Earth.
  - This is ensured by measuring Resistance of the Earth path by passing heavy Current say 25 A.
  - This model is as per IS 15885 Cl no 9
- **Models Available :**
  - The test bench can be customized as per the constant current value that is passed through the earthing circuit, but usually the tester is procured with 30 A capacity

Basic Specifications :

- Input supply 230 V +/ - 10% AC 50HZ.
- Current source : 0 to 30 A max.
- Test Voltage : 12 V max.
- Digital Display 3 1/2 digit for all measurable parameters (Ammeter, Voltmeter and Resistance - 0.001 Resolution for 1.999 Ohms range) at 25 A current.
- Voltage measurement: Two ranges namely 2 V, 20 V.
- Current Measurement: 0 to 30 Amps.
- Resistance Measurement: At 25 Amps. 0 to 1.999 Ohms.
- Separate Voltage and Current terminals.

Salient Features :

- AC Variable Current Source 0 to 30A AC @10V.
- Digital Ammeter 0 to 30.0A True RMS – 1 No.
- Digital mV /Ohm Meter with following range :

  a) For mV – 0 to 200mV/2V range.

  b) For Resistance 0 to 1.999 Ohms.
- The resistance will calibrated at 25A AC current.
- Output – On binding post type terminals 4 Wire measurement system.
- Two terminal for current & Two terminal for measurement of mV drop.

  a) Mains ON/OFF switch

  b) mV/Resistanace range switch Range.
- Output ON/OFF with Push button & Relay.
- Built in Extruded Aluminium section with duly powder coated M.S. covers Table top Model.

Key Benefits :

- The tester is used to measure the voltage drop of the earthling circuit at a constant current - thus assessing how well the product earth is 'bounded' to the system earthing

Key Photos :

Earth Contact Resistance Tester

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9. GLOW WIRE TESTER

- **What It Is?**
  - Table top model to verify flammability characteristics of moulds and insulators
  - As per IS 15885 Cl no. 18

- **Models Available :**
  - **Automatic Version** – motorized movement of test specimen with automatic current control on contact with the heating loop (most popular model – less costly than pc based version)
  - **Pc Based** - the above automated version with complete pc control and data logging + user management

Basic Specifications :

- **Temperature Sensor** – Thermocouple: Fine wire of Cr/Al of 0.5 mm diameter located in 0.6 mm diameter pocket hole in temperature sheath resistant to 1000 degree centigrade
- In the model GWT A2, current is held approximately constant (15 % swing) once the heating element touches the specimen.
- **Heating Element** – Glow Wire: Nickel / Chromium (Ni/Cr-80:20%) wire of 4mm diameter with a shape as per the standard
- **Time Controller** - Micro-controller based programmable timer 0 to 999 sec
  - The total test time can be programmed through keyboard
  - The ignition time and extinguish time of flame can be registered in timer
  - The stored time values can be viewed after the end of test
  - Setting on PC for PC based variant
- **Penetration Depth** - Mechanically restricted to 7 mm
- **Specimen size** - 180 x 150 Sq.mm max. & 15 x 15 Sq. mm min., Thickness 10mm to 80 mm.
- Test specimen contact force against the glow wire is preloaded to 0.8 to 1.2N
- **Test Chamber Dimensions** – (Available only with automatic variants)
  - Dimensions – 600 mm W x 300 mm D x 610 mm H. (approx.)
- **Supply Voltage** – 230 V AC, 50 Hz, 1 Phase, 500 VA

Salient Features :

- Nickel / Chromium based heating element (glow wire)
- Cr/Al based fine wire based thermocouple for temperature sensing
- Temperature Range - Adjustable up to 960° centigrade
- A motorized sliding carrier with an universally adjusted SS perforated tray is provided to mount the specimen
- Self adjusting constant current mode operation as soon as heater-specimen contact is established
- Motor brings the jig back to the pre-test position automatically as soon as the test is concluded
- Time Controller - Micro-controller based programmable timer 0 to 999secPrecision scale: Precision scale is provided to measure the height of the flame
- Safety – Emergency Switch, MCB, Fuses
- Entire panel hoisted in aluminium sections for better aesthetics
- Fully Automated Panel

Key Benefits :

- Unique Benefits That Make Testing Reliable And Compliant :
  - Constant current mode (available only in automatic variants – the point of operation shifts from constant temperature mode to constant current mode once the loop touches the specimen)
  - Motor + weight arrangement – ensures 10 n force (thus, once loop – specimen contact takes place, the only force on the specimen stand (specimen) is that of a fixed weight

- Available Only In Pc Based Variant :
  - All the key benefits stated above
  - Plus, pc software for control and data logging with a few software features such as:
    - User hierarchy
    - Diagnostic and debug mode
    - Reports exportable to excel format
    - Calibration mode

Key Photos :

Automatic Glow Wire Tester

10. ENVIRONMENTAL TEST CHAMBER

- **What It Is?**

  - The Environmental Test Chamber Is Provided With Best Air Circulation To Give Better Temperature And Humidity Uniformity. This Is Achieved By Using One Set Of Motor & Blower In Baffle Wall Compartment To Push Treated Air In Working Chamber.
  - This System Gives Better Than 1 Deg C. Temperature Uniformity In Working Chamber.
  - Cooling Coil Will be Fitted At Back Side , Behind Baffle Wall & Direct Cooling Will Transfer Inside The Chamber.
  - Heaters & Steam Injection System Is From Back Side, Behind Baffle Wall.
  - The Air Circulation Blower Is Also Fitted In This Compartment Only. This Arrangements Helps To Mix Steam And Air Together And Pass Well Mixed Air Inside The Working Chamber.
  - Due To Above System The Temperature And Humidity (R.H.) In Complete Chamber Remains Equal.

Salient Features :

- Input Supply 230 Volts , Ac Single Phase Supply.
- Compressor Time Delay Circuit.
- Compressor Overload Relay Protector.
- Electronic Low Water Level Cut Off Device
- Safety Temp. Controller
- MCB For Mains
- Capacity 90 Ltr.
- Temperature Range 10 Deg C. To + 60 Deg C. , Accuracy +/- 0.5 Deg C.
- Humidity Range 40% R.H. To 95% R.H. , Accuracy +/- 3% R.H.

Basic Specifications :

- Heavy Movable Caster Wheels Will Be Fitted At Bottom Of The Chamber For Easy Movement.
- Provided With Port Hole & Silicon Rubber Seal.
- Working Size 45 (W) X 45 (D) X 45 (H) cm.
- Microprocessor Based P.I.D. Temperature & Humidity Controller
- Pt-100 Sensors Provided For Temperature & Imported Humidity Sensor For % R.H

- **Key Photos :**

Environmental Test Chamber

11. LABORATORY OVEN

- **What It Is?**
  - Temp. Range : 5 Degree C. above Ambient to 250 OC., + / - 1 OC.
  - Temp. Control. : Microprocessor based PID Temperature Controller.
  - Inner Chamber : S.S. 304 quality with mirror finish buffing
  - Outer Chamber : Mild Steel duly powder coated
  - Circulation : Natural Convection
  - Internal Dimensions : 60 X 60 X 60 cms
  - Heater Rating : 3000 Watts
  - Forced Air Circulation

- **Key Photos :**

Laboratory Oven

6. MECHANICAL TEST EQUIPMENT FOR IRON

- **SCR ELEKTRONIKS** make following **MECHANICAL TEST EQUIPMENTS** for testing of **IRON** with respect to various test standards such as BS, BIS, IEC, etc.
- Although our core competence is electrical test equipment's our zest to deliver complete testing solutions to our long term clients and so on has resulted us into designing state of an art mechanical apparatus such as :

1. APPARATUS FOR CHECKING STEAM EMISSION KNOB FOR 50000 CYCLES
2. CORD GRIP TEST APPARATUS
3. CORD GUARD FLEXING TEST PANEL
4. IMPACT TEST APPARATUS IS 3854 1997 CLAUSE NO. 20 (FIG. 15)
5. BALL PRESSURE TEST APPARATUS AS PER IS 8828
6. DROP TEST APPARATUS
7. SPRING HAMMER IMPACT TESTER

1. Apparatus for checking steam emission knob for 50000 cycles

- Stepper Motor operated the apparatus will consist of fixture to push the steam emission knob.
- Controller Unit : This is microcontroller based unit where one can set number of operations and the time interval between two strokes. The number of operations will be displayed on 5 digit digital display.
- It is basically an endurance test of the entire steam emission system

2. Cord Grip Test Apparatus :

- It is used for testing effectiveness of the retention in flexible cables as per IS 1293.
- Test Apparatus consist of following parts :
  - Eccentric Circular plate.
  - Crank or handle.
- Plate on which flexible cable is tested. One side of plate is hinged & other side is freely rested on eccentric circular plate.
- Counter to count number of pull off.
- The testing cords of rewirable accessories are clamped by screw or by other means as per specification so that cord will not slip through the clamp. The testing specimen is passed through the hole provided on the hinged plate. The clamped or moulded portion of cable should rested on hinged plate.
- Place the weights as per rating of testing cable, as per given below, on the base plate of the apparatus :
  - 50 N(5 Kg) if the rated current is 2.5 A.
  - 60 N(6 Kg) if rated current is from 2.5 A up to 16 A & rated Voltage is up to 250V.
- Clamped the testing cable to the weight by screw provided on the weight. The testing cable is clamped in such a way that , weights will lift upward, if the hinge plate lifts in upward direction.
- The cable under test is then subjected 100 times pull up by rotating the Handle. The pulls are applied with out jerks.

3. Cord Guard Flexing Test Panel :

- Cord Guard Flexing Test Panel including Mechanical Arrangements, Weights, Gear Motor, MS Fabricated Cabinet is made to carryout both 90° & 180° flexing type.

- Flexing :
  a) With 90° at 60 flexing's / min.
  b) With 180° at 6 flexing's / min.

4. Impact Test Apparatus Is 3854 1997 Clause No. 20 (Fig. 15)

- **SCR Elektroniks** make Impact Test Apparatus is used to test the Electrical Accessories / appliances for their mechanical strength.
- Compliance is checked by applying blows to the sample, by means of apparatus as shown in the figure.

- **Different parts of the Impact Test Apparatus with descriptions are listed below :**
  - Striking Element : It has a hemispherical face of radius 10 mm, made of Teflon, weighing 0.15 Kg.
  - Steel Tube : It has external diameter – 9mm, and thickness – 0.5 mm. Steel tube is pivoted at its upper end in such a way that it swings only in the vertical plane of the axis of the striking element. The design of the apparatus is such that a force between 1.0 N to 2.0 N is applied to the face of the hammer to maintain the pendulum in horizontal position. Striking Element is rigidly fixed to the lower end of the steel tube.
  - The appliance is held against a solid wall of bricks, concrete or the like, and the test apparatus is so arranged that the pivot of the pendulum is vertically above the point of impact of the hammer. The striking element is then allowed to fall from such a height of 250 mm. Three such blows are applied to every part of the enclosure which is likely to be weak, including handle, levers and the like, but excluding single lamps and their covers if these do not protrude from the enclosure by more than 3 mm or have a surface not exceeding 3 cm (square).

- **Key Photos :**

Cord Guard Test Apparatus

Cord Grip Test Apparatus

Impact Test Apparatus

Apparatus for checking steam emission knob

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5. BALL PRESSURE TEST APPARATUS

- **What It Is?**
  - The Ball Pressure Test Apparatus is used to check the integrity of dielectric material with respect to resistance to elevated operating temperature.
  - The Ball Pressure Test Apparatus model BP 21 takes care of this testing useful for insulator manufacturers and other electro-technical manufacturers who use insulating material in their electrical appliances. The BP21 is made of stainless steel for long life.
  - It is mentioned in standards IEC 60335, IEC 60695, IEC 60950, IEC 61010, IS 302, IS 1293, IS 3854, IS 2215, BS, UL
- **Models Available :**
  - The product is designed as per the specifications and drawings in the relevant standard.

Salient Features :

- All stainless steel construction.
- Magnifier with built-in scale for measuring the depression created by the ball pressure test apparatus.
- Supplied in a compact and neat carrying case.
- Precision engineered and manufactured for ball pressure test covering all popular standards.

Basic Specifications :

- Ball diameter : 5 mm.
- Force exerted on sample : 20 n, + \ - 0.1 n.
- Material of construction : Stainless steel.
- Magnifier : X 10 magnification,0.1 + mm
- Resolution : 0~10mm scale

- **Key Benefits :**

  - The tester is used to asses the effect of ball pressure typically on insulator surfaces in a hot environment

- **Key Photos:**

Ball Pressure Test Apparatus

6. DROP TEST APPARATUS

- **What It Is ?**
  - SCR Elektroniks make Drop test Apparatus is used to test the Electrical accessories / appliances for their mechanical strength.
  - The iron is suspended by its handle with the soleplate in the horizontal position. It is dropped from a height of 40mm on to a rigidly supported steel plate having a thickness of at least 15 mm and a mass of at least 15kg. The test is carried out 1000 times at a rate not exceeding 20 drop/min.
  - After the test iron shall not be damage to such an extent that compliance with this standard, in particular with 8.1,15.2, and 29 is impaired. In case of doubt, supplementary insulation and reinforced insulation is subjected to the electric strength test of 16.3
  - The iron is suspended by its handle with the soleplate in the horizontal position and enter the 1000 cycles in counter and press START push button to start the TEST. After 1000 cycles over Test Over buzzer will flash.

- **Key Photos :**

Drop Test Apparatus

7. SPRING IMPACT HAMMER

- **What It Is?**
  - SCR ELEKTRONIKS have developed The tester tests strength and resilience of the domestic appliance / switchgear / wiring accessory under test against striking force derived from a mechanically charged spring hammer
- **Models Available :**
  - The product is designed as per the specifications and drawings in the relevant standard

Salient Features :

- Simple portable design
- Material not prone to rust
- Supplied in a wooden case to prevent damage during transit

Basic Specifications :

- Striking Element - 10 N Force
- Mass of assembly - 250 gm not exceeding 1 J and 500 gm not exceeding 2 J
- Distance of striking element - 8 mm to 12 mm

- **Key Photos :**

Spring Impact Hammer

Documentation That Will Be Provided With Product :

- Layout (dimensions, etc.)
- Metering and PCB termination diagram
- Power wiring diagram
- Control wiring diagram
- User manual
- Data acquisition module details (for PC based variants)
- Signed warranty certificate
- Calibration certificates (NABL optional)

SCR ELEKTRONIKS

Why SCR Elektroniks ?

- Since 1975: Rich Experience In Test And Measurement
- Customized Solution
- Dedicated After Sales Support Team
- Designed More Than 100 Different Products
- In- House Team Of Micro-controller Design, Electrical And Electronic Design, Micro Controller Development, Labview (PC) Software And PLC Logic, Production, Testing And Commissioning And Support
- In-house Development Of Critical Electronic And Electrical Meters, Modules And Components
- ISO 9001 : 2015 Certified By Bureau Veritas – Maintaining High Quality In Our Internal Process
- Listed By IEC In The Past
- Fair And Consistent Pricing
- Our Ultimate Prize: Customer Delight

Our Recent Clients List For Iron :

Sr. No	Customer Name
1	Bajaj
2	Havells
3	Elin Appliances
4	Maharaja Whiteline
5	Eveready

SCR ELEKTRONIKS

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THANK YOU