



LUMETRON HF-5 Inter-Turn Insulation Test Set



Inter turn Insulation Test is a production line test to verify the quality & electrical safety characteristics of products, as required by national & international safety regulatory agencies such as BIS, UL, CSA, VDE, BSI, DIN, IEC, etc. **LUMETRON HF-5 Inter-turn Insulation Test Set** is designed to perform such tests.

The LUMETRON HF-5 High Voltage, Medium Frequency Test Set from **LUMETRONICS** is a high grade, precision, laboratory power unit capable of delivering high voltage output up to 1200 V within a Frequency range of 240Hz to 260Hz and capable of output power up to 500VA. This custom-built power unit is easy to use, providing a medium frequency, high voltage output capable of operating in laboratory or industrial environments.

It has been designed and manufactured keeping in mind the specific requirements of Inter-turn Insulation testing for checking Transformers, Motors, Chokes / Ballasts, Coils etc. Inter-turn Insulation test is conducted at five times the operating voltage and five times operating frequency of the Unit Under Test (U.U.T). It offers a safe overload protection and operates within wide input supply Voltage and Frequency ranges. The unit switches to standby mode in case of output over-current or input supply

over-voltage and under-voltage. Output is always Soft start, and available from insulated 4mm sockets. Digital displays and control potentiometers are provided for Voltage, Frequency and Current Limit indication and adjustment.

Features

- Stable High Voltage, Medium Frequency adjustable output.
- Precision digital meters provide accurate indication of Output Voltage, Frequency and Load current.
- Soft start output to prevent undue stress to the equipment or UUT.
- Output available from insulated, heavy duty, 4mm sockets.
- Multiple turn adjustment potentiometers for Voltage, Frequency and Current, allow precise control.
- Mode Indicators to indicate:
 - Output ON
 - Input Supply Voltage LOW
 - Input Supply Voltage HIGH
 - Current Limit TRIP.
- High Voltage Output ON/OFF switch offers added operator safety.
- Additional EARTH terminal (4mm socket) on front panel for safety grounding during testing.

Specifications

- Type » High Voltage, Medium Frequency Test Set
- Output » 600 to 1200 V AC
 - » 240 to 260 Hz
 - » 500 VA
 - » Multi turn adjustment for Voltage, Frequency and Trip Current.
- Metering » Independent meters for Voltage, Frequency and Current.
- Meter Resolution » 1 V AC
 - » 0.1 Hz
 - » 0.001 A AC
- Meter Accuracy » +/- (1.5% of reading + 2 Digits) for Voltage
 - » +/- 0.2Hz for Frequency
 - » +/- (1.5% of reading + 2 Digits) for Current
- Input Supply » 230, +/-30 V AC, 50, +/-3%, Hz, single phase.
- Protection » Input Supply Cartridge Fuse, 4A, 20 x 5 mm
 - » Output ON / OFF Switch
 - » Protective EARTH Socket
 - » Adjustable Current Limit between 0.250A and 0.500A
 - » Output cutoff (trip) at Input Under Voltage below 190 V AC
 - » Output cutoff (trip) at Input Over Voltage above 270 V AC
- Overall Size » 550mm W x 450mm D x 435mm H, Approximate, Overall
- Weight » 47 kg. Approximate.