

Product Name :
UJT Relaxation Oscillator**Product Code :**
ALABS-A36-107**Description :****UJT Relaxation Oscillator**

We have gained immense expertise in offering **UJT Relaxation Oscillator** to respectable clients. The offered range aids in studying the electrical characteristics of uni- junction transistor. Ideally utilized for relaxation oscillator, waveform & pulse generators and firing circuits of SCR's and TRIAC's, the offered products are also applicable for making designing firing circuits and control circuits for thyristors.

Objects:

- Study of zener diode as voltage regulator
- Study of static emitter characteristics of UJT- uni-junction transistor on oscilloscope
- Study of effect of V on peak point and valley point voltage and valley point current

- Operation of UJT relaxation oscillator and its use as SCR trigger circuit
- Control of UJT trigger pulses with shunt transistor
- Study of variations in gate resistance & capacitance, resistance of source & drain and their effect on trigger pulse characteristics of UJT relaxation oscillator
- Various configurations of UJT relaxation oscillator type 1 (low output impedance), type 2 (moderate output impedance) and type 3 (high output impedance)

In built parts:

- An isolation transformer 230 V A.C. At 100 mA. This protects external instruments from damage if they are not isolated
- 20V D.C. at 100mA, IC regulated power supply internally connected
- Bridge rectifier and zener regulator
- Potentiometer for frequency control
- Two band switches for selecting different value of resistance and capacitance
- Pulse transformer 1:1:1
- Adequate no. of other electronic components
- Mains ON/OFF switch, fuse and jewel light

Specifications:

- The unit is operative on 230 V $\pm 10\%$ at 50 Hz A.C. mains
- Adequate no. of patch cords stackable 4 mm spring loaded plug length $\frac{1}{2}$ meter

- Good quality, reliable terminal/sockets are provided at appropriate places on panel for connections/observation of waveforms
- Strongly supported by detailed operating instructions, giving details of object theory, design procedures, report suggestions and book references
- Weight: 3 kg. (approx.)
- Dimension: W 340 x H 110 x D 210



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