



AD-01 DC Power Supply (optional)

**Scientech AB08 N-Channel FET Characteristics** is a compact, ready to use FET Characteristics experiment board. This is useful for students to study the characteristics of JFET (Junction field effect transistor) in common source configuration and evaluation of AC drain resistance, transconductance, amplification factor & drain resistance. It is also useful to plot output / drain characteristics & transfer characteristic of an N-Channel field effect transistor and to understand operation of an FET in different regions.

Scientech Analog Electronics Experiment Boards are designed as a comprehensive Modular solution for beginners to explore the fundamentals of a variety of basic building blocks in Analog Electronics. The boards are very user friendly and support self learning through flexibility of making circuit connections. Schematic diagrams on the boards provide easy understating of the concepts. Test points are provided to observe the waveforms/ signals and to measure voltages at different nodes. The boards can be used as standalone unit with external DC Power Supply, or can be used with Scientech Analog Labs; Scientech 2612/ Scientech 2612A / Scientech 2613. These labs have built in DC Power Supply, AC Power Supply, Function Generator, Modulation Generator, Continuity Tester, Toggle Switches, and Potentiometers. Product Tutorial with theory, description, explanation, procedure, references and results is available online on [www.ScientechLearning.com](http://www.ScientechLearning.com) .

### Features

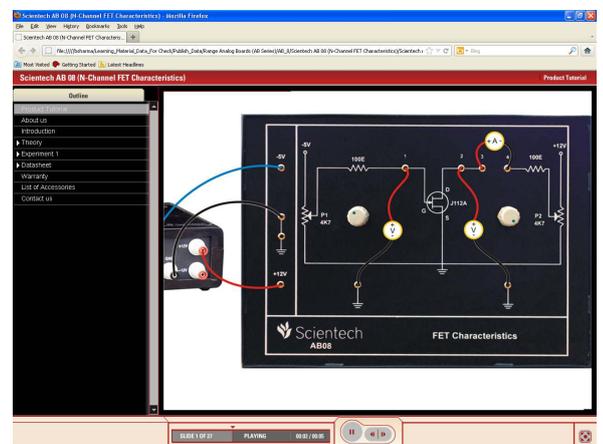
- On board test points to observe signals
- On board schematic diagram
- Flexibility of making circuit connections
- Light weight & compact
- Online Product Tutorial

### Scope of Learning

- Study of N-Channel FET Characteristics in common source configuration and evaluation of: AC drain resistance, transconductance, amplification factor, and DC drain resistance

### Optional

- AD-01 DC Power Supply ( $\pm 12V, \pm 5V$ )
- Simtel Analog Electronics Software



Online Product Tutorial