

**Y-0016 DC  
BASIC ELECTRICITY ELECTRONICS TRAINING SET  
DC CIRCUITS APPLICATION MODULES**

DC Circuits Application Modules are designed to do applications of CD Circuits and consists of 14 Experiment Modules.

Various applications from the structure and connection features of resistance, inductance and capacitors up to amplifiers are done on the application modules. The Experiment Book contains the chapters of "Preparation information" supported with circuit diagrams and graphics, "how to do the experiment" with detailed explanation and "conclusion" where the results and the questions regarding the experiment are included.

2 mm sockets and 2 mm connection leads in different colors are used with the DC Circuits Application Modules.

**SYSTEM PRESENTATION**

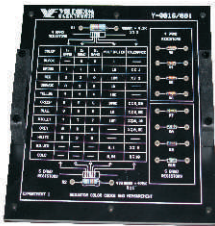
Application Modules	:	14 Pcs
2mm Connection Leads	:	24 Pcs, in 4 different colors
Experiment Book	:	1 Pcs



**DC CIRCUITS APPLICATION MODULES AND SPECIFICATIONS:**

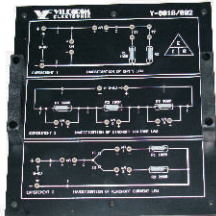
**SUITABLE MAIN UNITS**

- Y-0016
- Y-0038



**Experiment Module- 1**

- Resistance color codes and measurement



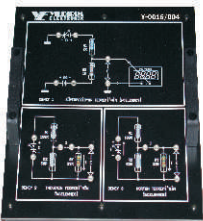
**Experiment Module- 2**

- Examination of OHM Law
- Examination of Kirchhoff's Voltage Law
- Examination of Kirchhoff's Current Law



**Experiment Module - 3**

- Examination of serial connected resistance
- Examination of parallel connected resistance
- Examination of assorted connected resistance
- Examination of serial connected inductances
- Examination of parallel connected inductances
- Examination of assorted connected inductances
- Examination of serial connected capacitors
- Examination of parallel connected capacitors
- Examination of assorted connected capacitors



**Experiment Module - 4**

- Experiment of Superposition Theorem
- Experiment of Thevenin Theorem
- Experiment of Norton Theorem



**Experiment Module- 6**

- Examination of voltage multiplexer - duplex
- Examination of voltage multiplexer - triplet
- Examination of voltage multiplexer - quartet



**Experiment Module- 5**

- Examination of diode
- The characteristic curves of diode
- Examination of half-wave rectifier
- Examination of full-wave rectifier
- Examination of bridge type full-wave rectifier
- Examination of capacitor filter
- The effect of current to the filter
- Examination of  $\pi$  type filter

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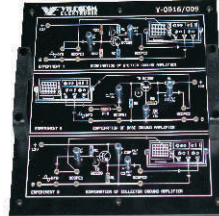
**Experiment Module - 7**

- Transistor output characteristics in first region
- Transistor output characteristics in second region
- Transistor output characteristics in third region
- Transistor output characteristics in fourth region



**Experiment Module - 8**

- Examination of Zener diode
- Examination of regular circuits with Zener diode,
- Examination of parallel regular rectifier
- Examination of serial regular rectifier
- Examination of ideal serial regular rectifier



**Experiment Module - 9**

- Examination of the common emitter amplifier
- Examination of common base amplifier
- Examination of common collector amplifier



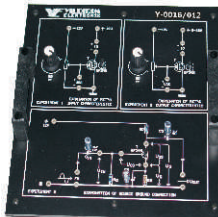
**Experiment Module - 11**

- Examination of audio amplifier with transistor
- Examination of Integrated audio amplifier



**Experiment Module - 10**

- Examination of A class amplifier
- Examination of B class amplifier
- Examination of C class amplifier



**Experiment Module - 12**

- Examination of J-FET input characteristics
- Examination of J-FET output characteristics
- Examination of Source grounded connection



**Experiment Module - 13**

- Examination of E-MOSFET input characteristics
- Examination of E-MOSFET output characteristics
- Examination of E-MOSFET operation



**Experiment Module- 14**

- Examination of RC phase-shift oscillator
- Examination of LC oscillator
- Examination of Hartley oscillator
- Examination of Colpitts oscillator
- Examination of Crystal oscillator
- Examination of Wien Bridge oscillator