

WS-100B

Basic Electricity · Electronics Circuit Trainer

Experiment

Basic Electric Circuit

- Flow of Current / Ohm's Law
- The Resistance of a Conductor
- The Change of Resistance with Temperature
- Serial connection of resistors
- Partial Potential of Resistors in Serial
- Parallel connection of resistors
- Branch currents of Resistors in parallel
- Serial and parallel connection of resistors
- Voltage Drop
- The Analysis of the Wheat-stone Bridge using Voltmeter
- Current and Resistance in branches
- Resistance Measuring by Voltmeter method
- The Resistance Measurement Using the Wheat-stone Bridge
- Half-Wave Rectification / Bridge Rectification / Voltage-Multiplying Rectification
- Center-tap Transformer Type Rectifier Circuit

Basic Electronics Circuit

- The inverting amplifier using OP-Amp / Non-inverting Amplifier using OP-Amp
- Diode using OP-Amp / The Multi-vibrator using OP-Amp
- AC to DC Converter using OP-Amp / Half-wave rectification / Bridge rectifier
- Amplification using TR
- The differentiator and Integrator using OP-Amp
- The rectifier using the OP-Amp
- The current - voltage converting circuit using OP-Amp
- The voltage - current conversion circuit using OP-Amp
- The Filter using OP-Amp / The Comparator using OP-Amp / The waveform shaping



Specification

- Main Voltage : 1 Phase 220V ~ 240V / 50/60Hz
- Working Table & Frame
 - Frame : 3 Steps
- Module Storage Cabinet : 2EA

Electricity Circuit Module

- WB-101 Lamp Module
- WB-103 Rectifier Circuit Module
- WB-106 Winding Resistor Module
- WB-108 Variable Resistor Module
- WB-102 Switch Module
- WB-105 Power Supply Module
- WB-107 Element Combination Module

* Product's design and appearance can be changed without any notice.

WS-100B

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■ Electronics Circuit Module

- WB-201
Inverting Amplifier Module
- WB-203
Diode Circuit Module
- WB-205
AC to DC Converter Module
- WB-207
Bridge Rectification Module
- WB-209
Direct Connecting Amplifier Module
- WB-211
Rectification Circuit Module
- WB-213
Voltage to Current Conversion Module
- WB-215
Comparator Circuit Module
- WB-229
DC Power Supply Module
- WB-202
Non-Inverting Amplifier Module
- WB-204
Multivibrator Module
- WB-206
Half-Wave Rectification Module
- WB-208
Transistor Amplifier Module
- WB-210
Integrator & Differentiator Module
- WB-212
Current to Voltage Conversion Module
- WB-214
Filter Circuit Module
- WB-216
Wave-Form Shaping Circuit Module
- WB-230
Variable Source Module

■ Digital Meter Module

- WB-110
DC Voltmeter Module
- WB-112
AC Voltmeter Module
- WB-111
DC Ammeter Module
- WB-113
AC Ammeter Module

■ Digital Meter Module

- WB-100-02 Resistor : 2[Ω]
- WB-100-04 Resistor : 10[Ω]
- WB-100-06 Resistor : 20[Ω]
- WB-100-08 Resistor : 330[Ω]
- WB-100-10 Resistor : 1[k Ω]
- WB-100-12 Resistor : 22[k Ω]
- WB-100-14 Condenser : 0.001 [μ F]
- WB-100-16 Condenser : 0.1[μ F]
- WB-100-18 Condenser : 2.2[μ F]
- WB-100-20 Condenser : 100 [μ F]/50V
- WB-100-23 Diode 1[A]/400[V]
- WB-100-03 Resistor : 5[Ω]
- WB-100-05 Resistor : 15[Ω]
- WB-100-07 Resistor : 50[Ω]
- WB-100-09 Resistor : 470[Ω]
- WB-100-11 Resistor : 10[k Ω]
- WB-100-13 Resistor : 100[k Ω]
- WB-100-15 Condenser : 0.047[μ F]
- WB-100-17 Condenser : 1[μ F]
- WB-100-19 Condenser : 4.7[μ F]
- WB-100-20 Condenser : 470[μ F]/35V

Accessory

- Experiment Manual : 1Copy
- Test Lead (Banana Plug) : 1Unit
- Power Cable : 1Set
- Dust Cover : 1EA

Option

- Oscilloscope : 1Set
- Function Generator : 1Set

01

02

03

04