

SEMICONDUCTOR TRAINER

Model Number : GOTT-SEMICON-24

**DESCRIPTION**

The semiconductor trainer GOTT-SEMICON-24 offers a complete set of experiments related with semiconductor based analog circuits. Due to the built-in instrumentation functions such as an AF generator, a frequency counter, a multimeter and a tracking power supply, the trainer GOTT-SEMICON-24 is a complete experimental tool by itself. The built-in multi-function features also increase experiment efficiency by reducing the time spent in preparation and keeping all the hardware well organized. An easy to follow, step-by-step experimental manual will guide the user through each experiment.

FEATURES

- All the necessary components are provided in the trainer. It extremely easy to change circuit values and to see the impact on the circuit performance.
- Two 3 digits decade capacitors and three BCD programmable resistors are provided in the unit.
- These components provide the accuracy needed in the circuit.
- Two variable resistors are provided in the unit. These resistors are used to adjust the input and output levels, time constants and bias outputs.
- The large size breadboard in the trainer provides ample room even for a complex circuit. Jumper wire connections between nodes eliminate soldering.

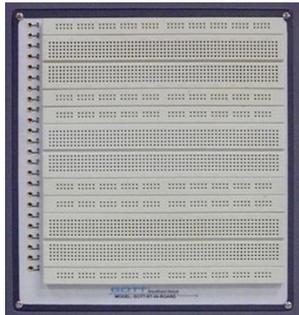
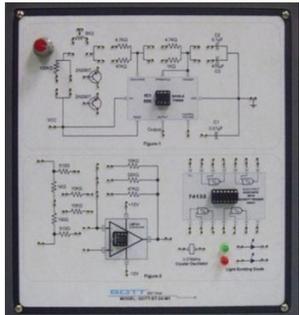
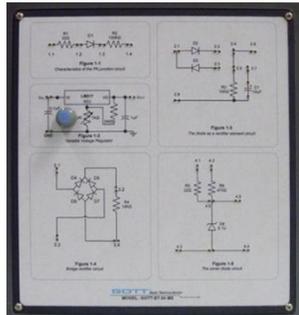
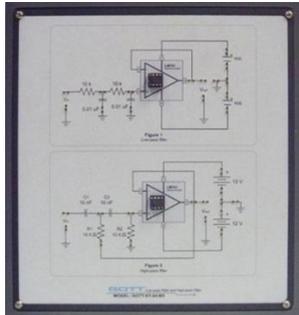
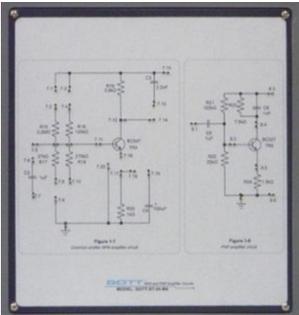
SPECIFICATION**MAIN UNIT**

- DC Outputs $\pm 0\sim 15V$ Dual Output
- Decade Capacitors : 100pF $\sim 0.1\mu F$ (3 digits)
1000pF $\sim 1\mu F$ (3 digits)
- Decade Resistors : 1k $\Omega\sim 15k\Omega$
10k $\Omega\sim 150k\Omega$
100k $\Omega\sim 1.5M\Omega$
10Hz $\sim 100kHz$ (in 4 ranges)
- AF Generator (Digital Display) : Output: 1V/10V (in 2 ranges)
Waveform: Sine, Square
- Multi-tester : DC : 10mV $\sim 20V$, (Imp.: 10M Ω)(3½digits)
AC : 10mV $\sim 20V$ (rms)
Resistance : 10 $\Omega\sim 2M\Omega$
- Protection DC O/L Alarm & Indication
- AC Output 30VCT(15V+15V) 0.1A max
- Variable Resistors: 0 $\sim 1000\Omega$ (3W)
0 $\sim 100k\Omega$ (1W)
- Switches Slide, Push, SPDT-Toggle
- Input Power : AC 110/240V 50 $\sim 60Hz$

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EXPERIMENT MODULES

BREADBOARD (STANDARD MODULE)	CODE 624-657	555 TIMER (OPTIONAL ITEM)	CODE 624-652	BASIC SEMICONDUCTOR (OPTIONAL ITEM)	CODE 624-653
					
LOW-PASS FILTER AND HIGH-PASS FILTER (OPTIONAL ITEM)	CODE 624-654	NPN AND PNP AMPLIFIER CIRCUITS (OPTIONAL ITEM)	CODE 624-655	ELECTRONIC COMPONENTS (OPTIONAL ITEM)	CODE 624-656
					

EXPERIMENT TOPICS:

- Pulse Distortion and Propagation Delay
- Operational Amplifiers: Amplifiers and Inverters
- Operational Amplifiers: Voltage Comparators
- Schmitt-Trigger Gates
- Monostable Multivibrators
- 555 Timer : Astable Operation
- P-N Junction Diode Characteristics
- Electronic Voltage-regulated Power Supply
- Diode Rectifier
- Low Pass Filter
- High Pass Filter
- NPN and PNP
- Electronic Components

Manuals:

- (1) All manuals are written in English
- (2) Model Answer
- (3) Teaching Manuals

Warranty:

2 Years

General Terms:

- (1) Accessories will be provided where applicable.
- (2) Manuals & Training will be provided where applicable.
- (3) Designs & Specifications are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product.

ORDERING INFORMATION :

ITEM	MODEL NUMBER	CODE
SEMICONDUCTOR TRAINER	GOTT-SEMICON-24	624-651
555 TIMER	GOTT-24-M1	624-652
BASIC SEMICONDUCTOR	GOTT-24-M2	624-653
LOW-PASS FILTER AND HIGH-PASS FILTER	GOTT-24-M3	624-654
NPN AND PNP AMPLIFIER CIRCUITS	GOTT-24-M4	624-655
ELECTRONIC COMPONENTS	GOTT-24-M5	624-656

* Proposed design only, subject to changes without any notice.