

Features

- The trainer is designed to cover the fundamental concept, theory and application of operational amplifier with descriptive and easy to understand.
- The trainer supplied with power supplies required to run the experiments.
- Desktop type, easy to handle.
- All terminal connection are equipped with robust 4-mm sockets for easy connection.
- Connecting leads, connecting cross and other connecting device are supplied in sufficient quantity to do all experiments.
- Complete with comprehensive Experiment manual book to guide student step by step in conducting experiments.

Operational Amplifier Trainer

PT 970232R



Covered Topics

- EE07001 Non Inverting Amplifier
- EE07002 Inverting Amplifier
- EE07003 Voltage Follower
- EE07004 Voltage Adder
- EE07005 Subtractor
- EE07006 Instrumentation Amplifier
- EE07007 Integrator and Differentiator
- EE07008 Logarithmic and Antilogarithmic Amplifier
- EE07009 Comparator
- EE07010 Schmitt Trigger
- EE07011 Peak Detection, Clipper and Clamper
- EE07012 Active Rectifier
- EE07013 Filter
- EE07014 Wien Bridge Oscillator
- EE07015 Phase-Shift Oscillator
- EE07016 Square Wave Oscillator
- EE07017 Voltage and Current Source

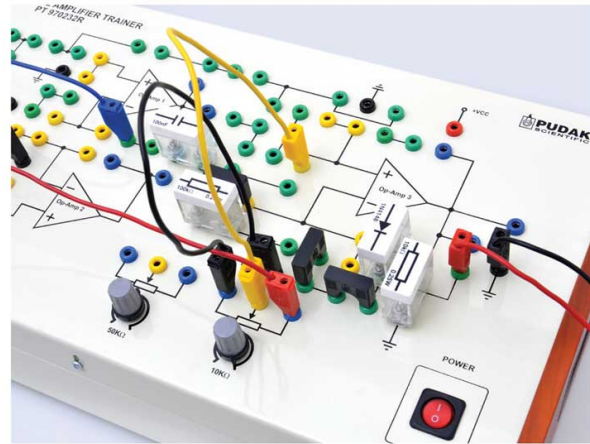
Specification

- **Desktop Module [PTE-023-01], equipped with:**
 - Universal configuration of Operational Amplifier
 - Power Supply
 - Output : DC Fixed 3, 6, 9, 12 V
 - Input : AC 220 V, 1 phase 50 Hz
 - Potentiometer : 10 k Ω and 50 k Ω
 - Input/Output connections : 4 mm
- **Container Box [PTE-023-02], consists of:**
 - Resistor 470 Ω / 0.25 W
 - Resistor 1 k Ω / 0.25 W
 - Resistor 1.5 k Ω / 0.25 W
 - Resistor 1.8 k Ω / 0.25 W
 - Resistor 2.2 k Ω / 0.25 W
 - Resistor 3.3 k Ω / 0.25 W
 - Resistor 4.7 k Ω / 0.25 W
 - Resistor 5.6 k Ω / 0.25 W
 - Resistor 6.8 k Ω / 0.25 W
 - Resistor 8.2 k Ω / 0.25 W
 - Resistor 10 k Ω / 0.25 W
 - Resistor 15 k Ω / 0.25 W
 - Resistor 18 k Ω / 0.25 W
 - Resistor 22 k Ω / 0.25 W
 - Resistor 33 k Ω / 0.25 W
 - Resistor 100 k Ω / 0.25 W
 - Resistor 470 k Ω / 0.25 W
 - Capacitor 1 nF non polar
 - Capacitor 4.7 nF non polar
 - Capacitor 10 nF non polar
 - Capacitor 100 nF non polar
 - Diode 1N4148
 - Zener Diode 5,6 V / 0,25 W

Training Panel System

PT 970232R Operational Amplifier Trainer consists of

Cat. No.	Description	Qty.
PTE-023-01	Desktop Module	1 set
PTE-023-02	Container Box, consists of:	1 set
PEO 337 01	Resistor 470 Ω / 0.25 W	2 pcs
PEO 337 02	Resistor 1 k Ω / 0.25 W	2 pcs
PEO 337 03	Resistor 1.5 k Ω / 0.25 W	2 pcs
PEO 337 04	Resistor 1.8 k Ω / 0.25 W	2 pcs
PEO 337 05	Resistor 2.2 k Ω / 0.25 W	1 pc
PEO 337 06	Resistor 3.3 k Ω / 0.25 W	2 pcs
PEO 337 07	Resistor 4.7 k Ω / 0.25 W	1 pc
PEO 337 08	Resistor 5.6 k Ω / 0.25 W	1 pc
PEO 337 09	Resistor 6.8 k Ω / 0.25 W	3 pcs
PEO 337 10	Resistor 8.2 k Ω / 0.25 W	2 pcs
PEO 337 11	Resistor 10 k Ω / 0.25 W	5 pcs
PEO 337 12	Resistor 15 k Ω / 0.25 W	2 pcs
PEO 337 13	Resistor 18 k Ω / 0.25 W	1 pc
PEO 337 14	Resistor 22 k Ω / 0.25 W	2 pcs
PEO 337 15	Resistor 33 k Ω / 0.25 W	1 pc
PEO 337 16	Resistor 100 k Ω / 0.25 W	4 pcs
PEO 337 17	Resistor 470 k Ω / 0.25 W	1 pc
PEO 396 12	Capacitor 1nF	3 pcs
PEO 396 13	Capacitor 4,7 nF	1 pc
PEO 396 14	Capacitor 10 nF	4 pcs
PEO 396 15	Capacitor 100 nF	1 pc
PEO 360 09	Diode 1N4148	2 pcs
PEO 365 04	Zener Diode 5,6 V / 0,25 W	1 pc
FLS 20.02/097	Connecting Cross	10 pcs
KAL 99/40-030	Connecting Lead 30 cm, Yellow	5 pcs
KAL 99/30-030	Connecting Lead 30 cm, Blue	5 pcs
KAL 99/20-030	Connecting Lead 30 cm, Red	5 pcs
KAL 99/10-030	Connecting Lead 30 cm, Black	5 pcs
E07S-01E	Experiment Manual Book	1 pc



Experiment EE07004 Voltage Adders



Section Boxes

Specifications and illustrations are subject to change without prior notice