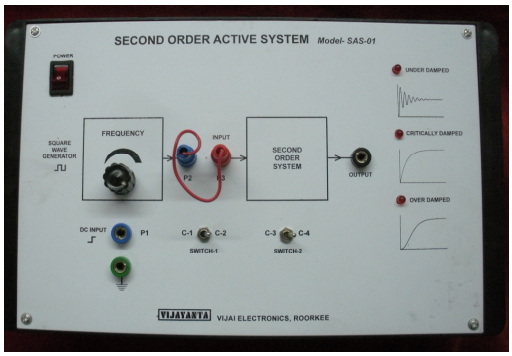
VIJAYANTA

WSC
ISO – 9001: 2015

SECOND ORDER ACTIVE SYSTEM TRAINER

MODEL : SAS – 01

Description The second-order active system trainer is designed to study the transient and steady state response of a second-order system. Through this trainer, underdamped, critically damped and overdamped behavior of the system can be studied.



Signal Source

There are two built in sources in this unit.
DC: 5 volt
Square wave: 5 Volt peak to peak, 0.5-25 Hz frequency

- Weight : 1.5 Kg Approximately
- Dimension : 195mm × 315mm × 75mm

Features

- This unit is inside a metallic cabinet with front panel block diagram.
- All necessary switches, test points are on the front panel.
- All waveforms can be measured on a CRO
- Built in signal source, dc and square wave upto 25 Hz and voltage of 5 Volts.
- Indicator which show the mode of the system (underdamped, critically damped and overdamped)
- Buit in regulated power supply: 230 Volt, ±10%, 50Hz mains operated.
- Detailed literature and patch cords

Object

Through this kit following objectives can be achieved:

1. Study the transient and steady-state response of underdamped, critically damped and overdamped second-order system step and square wave inputs.
2. Determine the transient and steady-state response specifications of underdamped, (ii) critically damped and (iii) overdamped second-order system.
3. Determine the transfer function models of underdamped second-order system through step response.

Accessories required

A general purpose dual trace oscilloscope

Due to continuous development in diagram and specification, there may be any change without any notice.

Note: There may be any change in specification due to continuous R & D without notice.

VIJAYANTA TECHNOLOGIES PVT. LTD.
(Formerly Vijai Electronics)
Dr. Baldev Singh Marg 28/147 Civil Lines, Roorkee-247667 Distt. Haridwar, Uttarakhand
Phone No.: 01332 – 272509, 7579200827
E-Mail : vijayantatechologies@gmail.com, vijaielectronics1965@gmail.com