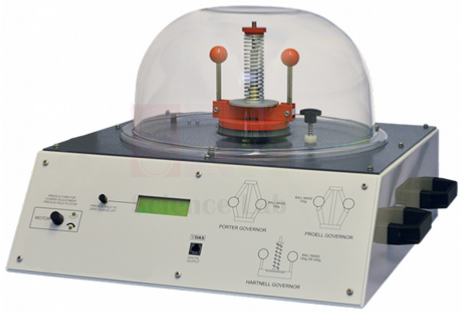
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Product Name :

Governor

Product Code :

SLE/ETM/02



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Description :

Governor (Product Code: SLE/ETM/02) is a centrifugal governor apparatus used to study how rotating masses lift a sleeve as speed increases, comparing Porter, Proell and Hartnell governors in theory of machines laboratories. A variable-speed motor in the base unit drives each of the three governors, a sensor records sleeve lift, and a clear dome with a power interlock lets students watch safely. It is built by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM and technical educational equipment manufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Governors included	Porter, Proell and Hartnell
Drive	Base unit with a variable-speed motor that turns eachgovernor
Operating principle	Rotating weights (masses) and levers raise a sleeve
Porter and Proell governors	Sleeve raised against gravity; additional weights (supplied) vary the sleeve mass
Hartnell governor	Sleeve raised against a compression spring; adjustable arm length and rotating mass
Measurement	Sensor measures the position (lift) of each governor sleeve
Safety	Clear dome with an interlock that shuts off power to the motor
Product code	SLE/ETM/02
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Governor Apparatus Used For?

A governor regulates engine speed by moving a sleeve, and through it a fuel or steam control, as its rotating masses swing outward. With this apparatus students run each governor across a speed range, record sleeve lift from the sensor at each speed and plot the characteristic curve of lift against speed. Comparing the dead-weight Porter and Proell designs with the spring-loaded Hartnell shows how the controlling force shapes sensitivity and stability.

Further runs add the supplied weights to the Porter and Proell sleeves, or change the Hartnell arm length and rotating mass, and show how the curve shifts, which leads naturally to governor effort, power and hunting. Close the clear dome before starting, since the interlock cuts motor power while it is open, and raise speed gradually as readings are taken. It is core mechanics lab equipment in India for dynamics of machinery syllabi.

OEM Manufacturer

Jain Scientific Equipments Private Limited, known by its trading name ScienceLab, is the original equip its own l direct and interr

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