

Governor Apparatus (EDC-TM-115)

Experimental Data:

- Measuring the governor characteristic curves and setting curves.
- kinematics and Kinetics of centrifugal systems as:
 - Porter governor
 - Proell governor
 - Hartnell governor
- Change of centrifugal governors.
- Intention of the structural design and adjustment of different governors.



DESCRIPTION:

A governor, or speed limiter or controller, is a device used to measure and regulate the speed of a machine, such as an engine. A classic example is the centrifugal governor, also known as the Watt or fly-ball governor on a reciprocating steam engine, which uses the effect of inertial force on rotating weights driven by the machine output shaft to regulate its speed by altering the input flow of steam. Apparatus contains porter, Proell and Hartnell governor type with adjustment to experiment on different conditions. Optional Software is available for Data Acquisition and Control Function.

SPECIFICATIONS:

- Three different centrifugal governors.
- Adjustment of centrifugal mass and spring preload.
- Continuous adjustment of speed.
- DC motor drive.
- LCD display.

TECHNICAL DATA:

- Governors:
 - Porter
 - Proell
 - Hartnell
- DC Motor: 100W, 600RPM max.
- Proell Mass:
 - Sleeve: 100g Qty 3.
 - Centrifugal: 150g Qty 2.
- Porter Mass:
 - Sleeve: 100g Qty 3.
 - Centrifugal: 400g Qty 2.
- Hartnell Mass:
 - Centrifugal: 400g Qty 2.
 - Compression spring Qty 2.
- 230V, 50Hz, 1 phase.

DIMENSIONS AND WEIGHT:

- L x W x H (mm): 450 X 400 X 450 approx.
- Weight: 33 kg approx.

SCOPE OF DELIVERY:

- 1 x EDC-TM-115.
- 1 x Instructional Manual.

