



THE LAB EQUIPMENT

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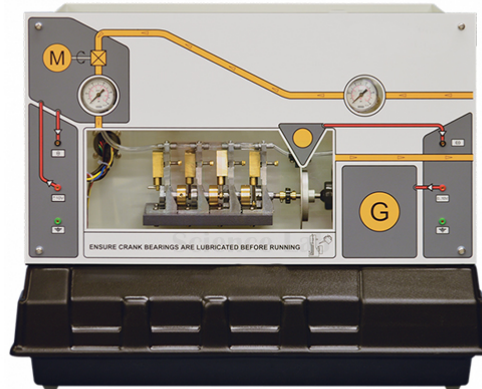
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**Product Name :**

Engine Speed Control Apparatus

**Product Code :**

SLE/ETC/04



## Description :

- Engine Speed Control Apparatus shows the problems of regulating the speed of rotating machines, especially problems with non-linear control systems.
- The basic purpose is to adjust a motorised valve to regulate the engine speed under load. A d.c. generator connects to the engine output and loads the engine.
- It is a scale-model engine, driven by compressed air (not supplied) for safety.

### Advanced experiments show:

- Non-linearity compensation using dither signals.
- Multiple loop and minor loop.
- System modelling from step response information.
- P+I control and root locus methods.

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