

COMPUTER OPERATED OIL PUMP TEST RIG

MODEL: PCF10



FEATURES

- Compact, comprehensive, sturdy design
- Versatile operation
- Menu driven screen
- User friendly data acquisition system

DESCRIPTION

An invaluable aid in the effective understanding of the performance characteristics of oil pumps. An electric motor is used as a drive unit. Optionally, it has a facility to vary the speed of the motor to get various performance parameters for better understanding. The trainer is complete with transducers to measure relevant parameters.

The parameters are fed to the computer via a signal conditioning unit, the interfacing and communication system along with necessary power supply. The acquired data is then analysed and displayed in tabular/ graphical format by the software provided. The software is Windows based user friendly and menu driven. Facility to print the data helps student keep record of their experiments.

INSTRUCTION MANUAL

Self-explanatory operating manuals are provided with each system. Detailed theory as well as practical exercises is also included in the manual.

LIST OF EXPERIMENT

1. To study the construction and operation of oil pumps.
2. Determination of total head, power input and efficiency of a pump.
3. To study the performance characteristics of pump.

COMPONENTS

1. Oil Pump
2. Electric Motor
3. Torque Transmitter
4. Pressure Transmitter
5. RPM Transmitter
6. Flow transmitter
7. Data acquisition and interfacing system
8. Software

OPTIONAL ADDITIONAL

1. Computer-IBM compatible with Colour monitor.
2. Variable speed drive unit

Note: Details of attachments can be made available on request.

SERVICES REQUIRED

1. Electric supply



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