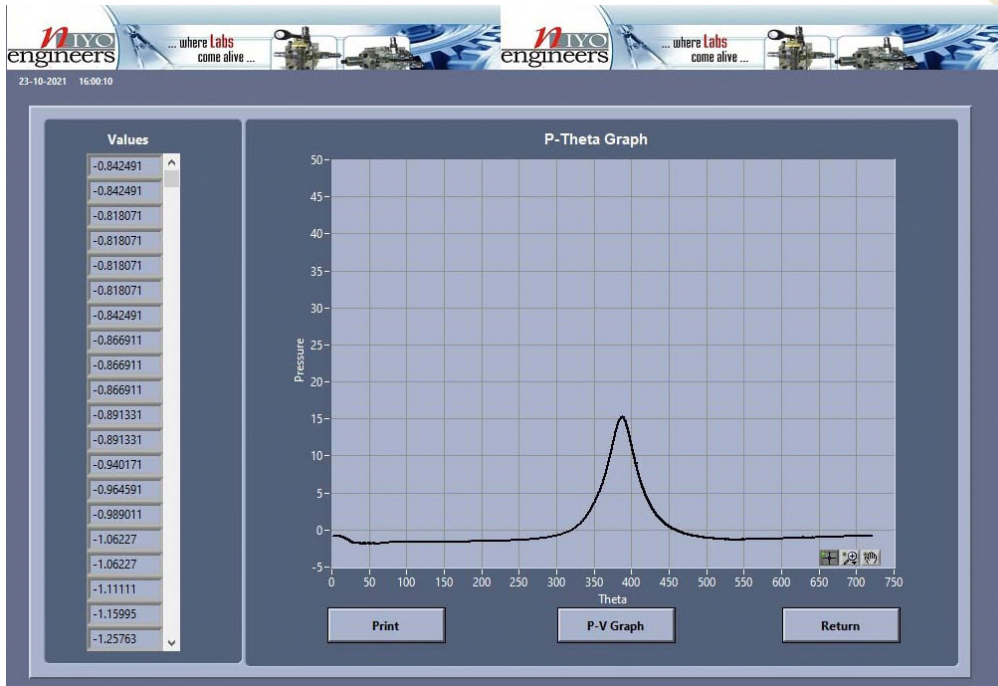


ENGINE INDICATING SYSTEM

MODEL: HMT09



FEATURES

- Compact, comprehensive, sturdy design
- Choice of engine (Petrol or Diesel)
- Piezo transducers used for sensing cylinder pressure
- P-theta as well as PV diagrams can be plotted

DESCRIPTION

The system is an invaluable aid for the measurement and analysis of cylinder pressures and related aspects of engines. The system incorporates a Piezo transducer. It is mounted in the cylinder head and it measures dynamic pressure encountered in the engine cylinder. Cylinder pressure along with TDC marker and angle marker is fed to the PC through a high speed data acquisition interface.

On the PC user can view P- θ and P-V diagram of single cycle of the engine. Software also displays average value of the Pressure over one cycle. It may be interfaced with plotter or a printer so as to obtain a hard copy.

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 P- θ plot of an IC engine.
2. To study P-V plot of an IC Engine

COMPONENTS

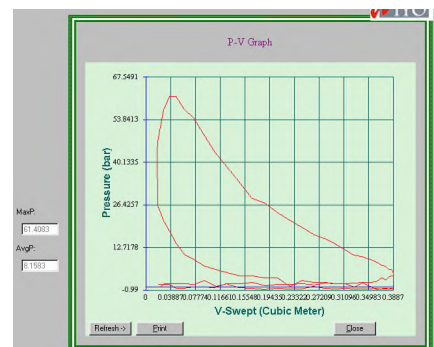
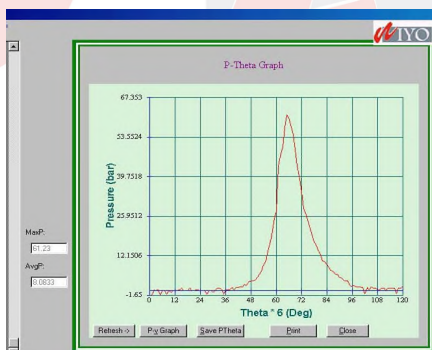
1. Piezo transducer to suit engine (Petrol or Diesel)
2. Necessary inter-connecting cables
3. Charge Amplifier
4. TDC Marker and Crank angle marker
5. Software

OPTIONAL ADDITIONAL

1. PC
2. Installation of the sensors on the engine

SERVICES REQUIRED

1. Water supply and drain arrangement
 2. Electric supply
 3. Fuel for engine
- Note: Installation of the sensors is carried out by NiYo only if specifically asked for, at extra cost.



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ISO9001:2015

- (1) Since research and development is an on-going activity, the specifications mentioned herein are subject to change without notice
- (2) Photographs are indicative only.