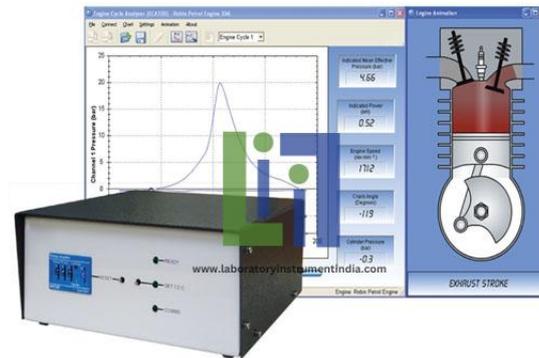




Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Engine Cycle Analyser

**Product Code :**  
LBNY-0005-1110003



### Description :

Ideal for student experiments, laboratory demonstrations or project work, Engine Cycle Analyser enables students to investigate a variety of engine performance characteristics. The equipment is primarily for use with engine test sets and engines but it can also be used with other engines fitted with compatible cylinder head transducers and crank angle encoders. The versatile equipment consists of both hardware and software specially designed for educational use. It enables students to investigate the relationship between crank angle or volume and the cylinder pressure in an internal combustion engine. The equipment consists of a hardware unit with connectors and leads, plus Windows based data acquisition and analysis software. The hardware consists of a microprocessor-based signal conditioning unit with high-speed PC interface, housed in a rugged, protective enclosure. The cylinder pressure input includes a precision charge amplifier with a digital thumb-wheel for calibration. As well as crank angle position, the signal from the Crank Angle Encoder is also used to determine engine speed. It accepts and conditions signals from the Cylinder Head Pressure Transducer and Crank Angle Encoder available separately.

### Technical Specification :

Pressure signal conditioning: Precision charge amplifier with digital thumb-wheel calibration  
PC connection: Via USB type 1.1 or 2  
Auxiliary input: 0 to 10 V via BNC connector  
Maximum engine speed: 7000 rev. min<sup>-1</sup>  
Approximate total packed dimensions and weight: 0.04 m<sup>3</sup> and 6.5 kg  
Crank angle input: Shaft encoder with 360 pulses per revolution  
Resolution: 1 degree.  
Net dimensions and weights:

---

Analyser: 250 mm x 250 mm x 110 mm and 3.5 kg

Angle encoder: Supplied in a protective bag, roughly 120 mm x 120 mm x 70 mm and 0.5 kg

Pressure Transducer: Supplied in a storage box 140 mm x 140 mm x 70 mm and 0.5 kg.



**Laboratory Instrument India**