

Product Name :
Engine Cycle Analyzer

Product Code :
TK331



Description :

Engine Cycle Analyzer

Technical Specification :

Engine Cycle Analyzer

Investigations into a variety of internal combustion engine characteristics, including:

The thermodynamic cycle of an internal combustion engine

Calculation of indicated mean effective pressure and indicated power

Comparison of indicated mean effective pressure and brake mean effective pressure

Mechanical efficiency of the test engine

Further work using exported data such as combustion analysis

Net dimensions and weights:

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

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

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

Total packed dimensions and weight: 0.04 m³ and 6.5 kg

Crank angle input: Shaft encoder with 360 pulses per revolution

Resolution: 1 degree

Pressure signal conditioning: Precision charge amplifier with digital thumb-wheel calibration

Engine speed: 7000 rev. min⁻¹

PC connection: Via USB type 1.1 or 2

Auxiliary input: 0 to 10 V via BNC connector

Recommended computer hardware: Intel® Pentium® 4 or equivalent processor operating at 2 GHz

512 MB of RAM SVGA monitor with 16-bit color, 1024 x 768 resolution

CD-ROM drive
USB 1.1 or 2 port
500 MB of hard disc space
Two-button mouse.

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