

LABCELL LTD QUALITY • SUPPORT • RELIABILITY

ENGINE BLOW-BY METER M400MR



For Engine Testing, Lubricant Testing and Fleet Maintenance in Dynamometer Cells and Vehicles.

The M400MR measures the flow of gases from an engine's crankcase. This flow, called blow-by, is caused by piston ring, valve guide and turbocharger leakage. Blow-by data is used to determine engine condition and lubricating oil effectiveness.

Blow-by is quantified either by:

The flowrate at a given engine load or speed

or:

The time it takes for a certain volume of gas to flow over a given engine cycle.

The M400MR has both flow rate and totaliser modes and can therefore supports both types of measurement. The Blow-by meter operates on a vortex shedding principle which provides a fast response and an insensitivity to temperature, pressure and velocity. There are no moving parts in the meter and the vortex shedding principle ensures pefect zero stability.

Flow Ranges:

Flow ranges are set by adjustable by-pass ports:

User selectable: 4 to 150 LPM (0.15 to 5.4 CFM) 11 to 300 LPM (0.41 to 10.8 CFM) 15 to 400 LPM (0.56 to 14.4 CFM)

Total Flow: 1,000 Litres (total), 100.0 ft3 (total)

M400MR Features:

Wide flow measurement range (user-selectable) Suitable for spark ignition and diesel engines 0-5V linearised, programmable output Easy-to-read display for flow output and configuration Flow rate and totaliser modes User-defined engineering units (LPM, CFM, Litre or Cubic Feet) Low flow restriction Built in oil separators and dampers Integral ports for temperature and pressure probes

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