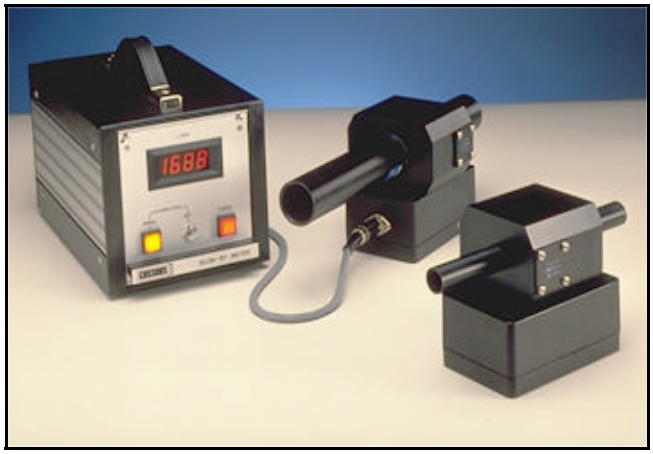
cussons
TECHNOLOGY



BLOWBY METER

APPLICATIONS

- Engine Condition Monitoring
- Research and Development
- End of Line Testing

FEATURES

- Vortex Shedding Transducer
- Very Low Pressure Drop
- Wide Flow Range
- Small Physical Size
- Precision Amplifier with Low Pass Filter
- Digital Display
- Analogue Output
- Pulse Train Output
- Linearising Electronics
- High Flow Alarm

DESCRIPTION

Engine deterioration may be assessed in several ways, one of which is to measure cylinder gas loss; the accumulation of crankcase gas is a result of this loss, and it provides an indication of wear in the valve stems, valve guides, piston rings, and cylinder bores. Cussons Blowby Meter is an ideal solution to the problem of easily measuring the gas flow out of engine crankcases as it can be incorporated into engine ventilation systems in a low intrusive manner.

The Blowby Meter consists of a flow transducer, digital display module and the interconnecting cable. The Display Module, which incorporates a linearising circuit, shows the gas flow in litres/min on a digital display and provides an analogue output voltage which is jumper link selectable as 0-2V or
0-10V. A pulse train output is also provided. The module incorporates an alarm circuit which provides both a visual indication and closes voltage free alarm contacts when the gas flow exceeds an operator
pre-set value.

To enable Cussons Blowby Meter to be used over a wide range of engine applications, five differing sizes of flow transducer are available.

An Analogue display version is also available as detailed below.

Suitable for use with 220/240 V 50HZ and 110/120V single phase supply or optionally 12VDC supply for digital models only.

TECHNICAL SPECIFICATION

Digital Product No.	P8369	P8370	P8371	P8372	P8373
Analogue Product No.	–	–	P8360	P8361	P8362
Size	3/8" bore	1/2" bore	5/8" bore	11/4" bore	2" bore
Linearised Range	4~50 l/min	7~100 l/min	11~150 l/min	56~600 l/min	141~1500 l/min
Digital Display & Analogue Output Linearity (%FS)	±1.5	±0.8	±0.5	±0.5	±0.5
Linearity of Analogue Meter (%FS)	<±1	<±1	<±1	<±1	<±1
Repeatability (%FS)	±0.5	±0.5	±0.5	±0.5	±0.5
Pressure Drop at FS (mmH_2O)	8	8	8	8	8
Pressure Drop at 0.5xFS (mmH_2O)	2	2	2	2	2

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