

Flowcal  
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# specification sheet Blow-by Meter specification sheet



# Flowcal

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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 bearing 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 speed and load
- Or
- The time it takes for a certain volume of gas to flow over a given engine cycle

## Applications:

- Engine Testing,
- Lubricant Testing
- Fleet Maintenance in Dynamometer Cells and Vehicles



## SPECIFICATION

**Flow Ranges (Set by adjustable bypass ports):**  
User selectable from: 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:** 1000 Litres (total), 100.0 Ft<sup>3</sup> (total)

**Accuracy:** 1% of reading

**Repeatability:** 0.5% of reading

**Pressure Drop (across entire meter):** 0.5" (12.7mm) H<sub>2</sub>O @ 20% of max flow

**Operating Temperature:** 0 to 250°C (flow)  
-20 to 85°C (electronics)

**Outputs:** Analogue (0 to 5 VDC linearised)  
RS-232 (bi-directional)

**Programmable:** Output update rate, Analogue output range,  
Flow averaging period, Flow range  
Materials exposed to blow-by: Anodized aluminium, Stainless Steel & Teflon

**Power:** 11 to 28 V DC @ 300mA,  
240 AC Power Supply Included

**Size:** 102 x 366 x 133 mm

**Weight:** 2.5 kg



If you have any enquiries about this product, please contact us.