

LABCELL LTD

QUALITY • SUPPORT • RELIABILITY

MERIAM LAMINAR FLOW ELEMENTS



Precise flow instruments for the measurement of air flow including engine air intake applications.

Meriam Laminar Flow Elements measure volume flow rate of gas by operating on capillary flow principles. The LFE generates a differential pressure which is near-linear to flow rate passed resulting in excellent performance in terms of accuracy, repeatability and turndown.

They are available in a number of line sizes to suit a choice of flow ranges, gases and applications. Each LFE is calibrated independently and supplied with co-efficients to allow flow rate to be determined by measuring differential pressure.

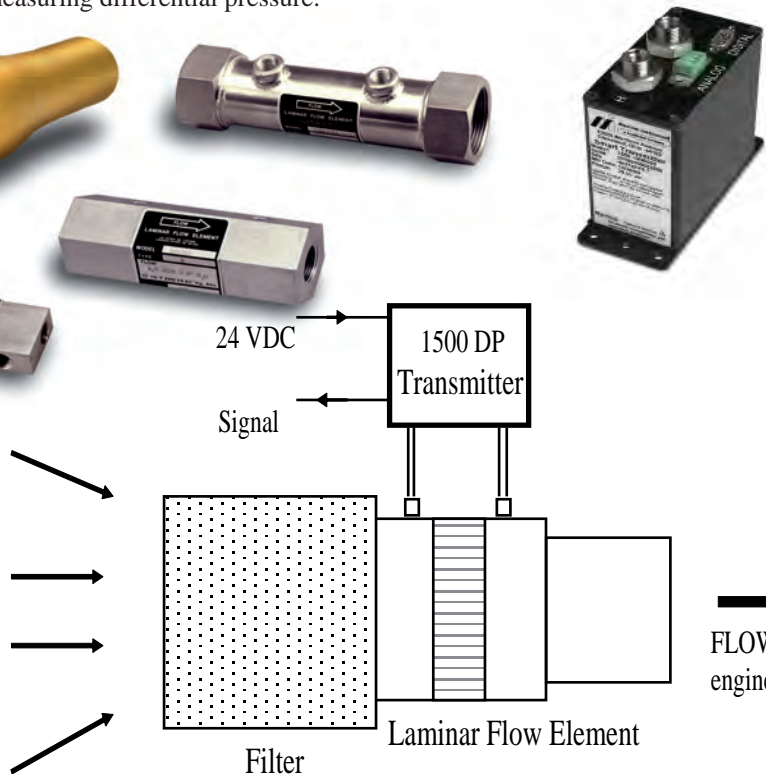
Features:

Measures clean, dry air/gases
Wide flow turndown (20:1)
Flow ranges from 5 cc/min to 64,000 LPM
Line sizes : 1/4" to 8" Diameter
Accuracy: +/- 0.72 % of Reading
Filtered meters available
Choice of line connections
(Hose, flanged or threaded)

Applications Include:

Engine Air Intake Measurement
Emissions Analysis
Flow Benches
Calibration Standards/Reference
Component Leak Detection

FLOW
(ambient)



Specifications for Engine Air Intake:

Model:	50MC2	-2F	-4F	-6F	-8F
Line Size:		2"	4"	6"	8"
Max Flow (scfm)		100	400	1000	2250
Max Flow (LPM)		2800	11000	28000	64000
Overall Accuracy: +/- 1.0% of Reading					
Input: 24 VDC					
Analogue Output: 0-5V DC or 1-5 VDC					
Digital Output: RS485 / RS232					

The 50MC2 model of LFE is an ideal choice for determining engine air intake. It is available in 4 different line sizes and measures upto 64,000 LPM. The upstream filter allows the meter to be used in dynamometer conditions and connected, via flexible hosing, to the intake of an engine. Meraim's 1500 Differential pressure transmitter can be scaled and calibrated with the LFE to provide an overall flow meter with an accuracy of +/- 1.0 % of reading.