BBM

BLOW-BY MEASUREMENT

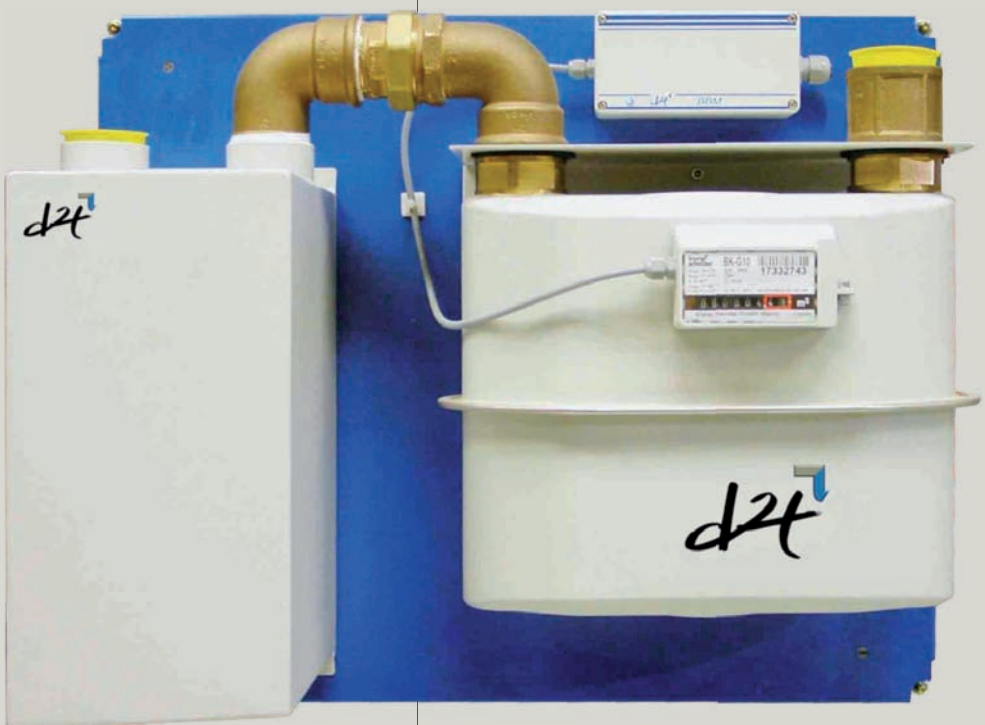
Easy set-up

Excellent reliability

No maintenance

D2T markets a range of pendulum meters allowing you to measure gas leak flow (“blow-by”). Ideal for automotive and industrial internal combustion engines

- Emissions measurement
- Air intake
- Vapor
- Engine blow-by, 2-stroke and 4-stroke engines
- Exhaust measurement
- Low pressure industrial measurement



GENERAL PRESENTATION

The heart of the “blow-by” meter is the ELSTER pendulum meter. Instead of the usual meter, an optoelectronic transducer produces an impulse signal proportional to the flow.

A decanter is used to remove dirt particles from the mixed gas and to make the flow more regular.

The output signal is 5 V TTL (frequency) and is converted into a 0-10 V or 0-20 mA output.

The power supply requirement is 24 V d.c.

Choice of the appropriate “blow-by” meter

The value of the gas flow rate depends on the volume produced and the engine type. To choose the right flow range, it is necessary to consider the following criteria:

- Four-stroke engines: the value is between, approximately, 2 and 2.5% of the cubic capacity of cylinder in litres multiplied by half the value of the maximum engine speed, in rpm.
- Two-stroke engines: the value is between, approximately, 2 and 2.5% of the cubic capacity of cylinder in litres multiplied by the value of the maximum engine speed, in rpm.

For the supercharged engines the flow is higher at about 2.7 to 3%.

In order to reduce load losses and get the best metering accuracy, we recommend that the measured value should be 50% of the full scale.

TECHNICAL SPECIFICATIONS

Type	Measurement range (l/min)	Measurement accuracy according to measurement time (l/min)	Height of installation (mm)	Dimensions (L × h in mm)
BBM 100-2	0.7/100	0.125 (14.1 s) to 1.1 (1.76 s)	200	692 × 573
BBM 150-2	1.1/150	NC	250	692 × 573
BBM 250-10	1.6/250	1.1 (27.7 s) to 7.8 (3.46 s)	280	692 × 573
BBM 400-10	2.6/400	NC	280	692 × 573
BBM 650-20	4.5/650	NC	320	573 × 1,092

A version with the decanter positioned behind the meter (assembling back-to-back) is available.

D2T Z.A. de TRAPPES-ELANCOURT - 11 rue Denis Papin - 78190 TRAPPES (FRANCE)
tél. +33 1 30 13 07 07 fax +33 1 30 13 07 10 e-mail d2t@d2t.fr internet www.d2t.com