

## FILTES MANOMETERS AND AIR DIFFERENTIAL PRESSURE SWITCHES

DB-M...P...

### FUNCTION

Differential pressure visualization of air or non aggressive and non inflammable gases with alarm at a pre-set value.

The compact unit is complete of:

- differential manometer with inclined liquid tube;
- differential pressure switch.

### APPLICATIONS

Well-suited in domestic, commercial and industrial strong polluted areas in air conditioning systems for:

- filter monitoring;
- correct fan operating control;
- low pressure and overpressure monitoring.

TYPE	MANOMETER RANGE Pa	PRESSURE SWITCH RANGE Pa	DIFFERENTIAL Pa	MAX. PRESSURE kPa
DB-M6	0...600			200
DB-M6P6	0...600	40...600	30	50
DB-M10	0...1500			200

### TECHNICAL DATA

**Materials:** ABS, PMMA, PC  
**Sealings:** NBR  
**Storage:** DB-M...: -45...+70 °C  
 DB-M...P...: -25...+70 °C  
 < 95% r.h.  
**Size:** 290 x 140 x 64 mm

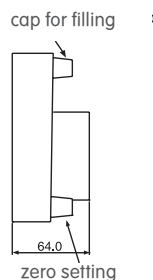
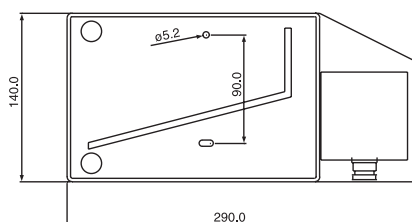
### MANOMETER

**Fluid:** ISO-paraffin with density at 15 °C  
 d = 0.786 kg/dm<sup>3</sup>, red colour  
 DB-M6P6  
 DB-M10P13  
 d = 1.870 kg/dm<sup>3</sup>, blue colour  
**Working:** -40...+60 °C  
 10...90% r.h. (without condensing)  
**Max pressure:** 200 kPa  
**Accuracy:** 5 Pa

### PRESSURE SWITCH:

**Contact:** dust-tight microswitch with SPDT contacts  
**Switch capacity:** 3 (2) A, 250 Vac  
**Differential:** fixed (see schedule)  
**Working:** -20...+60 °C  
 10...90% r.h. (without condensing)  
**Max pressure:** 50 kPa  
**Protection:** IP54, class II  
**Electrical Connection:** with terminals and grommet PG9  
**Weight:** 400...820 g

### DIMENSIONS (mm)



### GENERAL FEATURES

The compact unit is complete of:

- a differential manometer with an inclined liquid pipe, complete of tank to allow temporary overpressure,
- a bottle containing indication liquid and 2 stickers (red/green);
- a differential pressure switch connected to the manometer with PVC hose, complete of pressure adjustment knob, terminals for electrical connections and cable gland PG 9 (protection class according to EN 60529: IP54);
- PVC hose Ø 4 x 7 - 2,2 m length, pipes and fixing screws.

### WIRING DIAGRAM

The contact 1 - 2 closes and the contact 1 - 3 opens when the differential pressure rises (fig. 1):

