

## BEMP-XA Electronic pellicular flow meter

### Application

This device has been designed for measuring gas flow in laboratory conditions. It can be applied for the operation together with gas chromatograph, calibration of rotameters or other flow meters or gas samplers. Its valuable advantage is the facility for operation in closed system, i.e. gas that flows through the system is not emitted to atmosphere but remains in apparatus. **BEMP-1A and BEMP-2A systems has got certificates issued by PCA laboratory (Polish Centre for Accreditation).**

The principle of measurement is analogous as in the classical pellicular flow meter (bubble meter), where the velocity of moved soap bubble in the tube is measured. Here is also the measurement of the time during which the pellicle was moved by determined volume. The time of move is measured electronically and on the basis of that the system calculates flow velocity that can be given in  $\text{cm}^3/\text{min}$  or  $\text{dm}^3/\text{h}$ .



The meters are manufactured in versions with various measuring ranges.

### Technical data

- Measuring range of flow intensity
  - BEMP - M1A 0,03 ÷ 0,5  $\text{dm}^3/\text{h}$ . (0,5 ÷ 8  $\text{cm}^3/\text{min}$ )
  - BEMP - M2A 0,4 ÷ 6  $\text{dm}^3/\text{h}$ . (6 ÷ 100  $\text{cm}^3/\text{min}$ )
  - BEMP - 1A 1 ÷ 15  $\text{dm}^3/\text{h}$ . (15 ÷ 250  $\text{cm}^3/\text{min}$ )
  - BEMP - 2A 10 ÷ 150  $\text{dm}^3/\text{h}$ . (150 ÷ 2500  $\text{cm}^3/\text{min}$ )
- Class 0,3
- Maximal working pressure 15 kPa
- Working temperature 5 - 50°C
- Relative humidity below poniżej 90%