

**95-0252**

Optoelectronic flowmeter is destined to measure the expenditure of gas, liquid or steams and might be used in measuring systems of checking and in meter-flowmeters, especially in municipal - usual sphere.

Optoelectronic flowmeter consists of tubing (1), mechanism for narrow (2) in shape of iris diaphragm (3), spacing engine (4), sensor of difference of pressure (6), microprocessor (11), numerical display (12), reader of datas (10), with microcircuit credit card, block of optical emitters (7), block of photodetectors (8) and amplifier block (9).

The sensor of difference of pressure is mare from multimodal or monomodal optical fibres with little moduls constriction, which is flooded with siliconen compound. During the forming of sensor of difference of pressure, the constriction is formed through the heating and the extention of optical fibres. The heating is done by continous monomodal laser radiation, which is extended and focused length ways optic fibres with the help of two cylindrical mirrors, the temperature of heating is maintained constantly with the help of adjustment of focal plane of the second cylindrical mirror.

Claims: 7

Fig.: 2