

The invention relates to metrology and measurement technique, in particular to flow rate meters, and can be used for measurement of flow rate of liquids and gaseous substances, calibration and verification of flow rate meters and liquid and gas meters. A bypass meter comprises a pressure tube with receivers of total pressure and static one, wherein the tube is fixed on the pipeline by a cup with a device for pressure tube sealing and a plug valve for closing pulse lines of the pressure tube. According to the invention it additionally comprises a temperature sensor with a block for determination of thermal conductivity of natural gas equipped with a corrector of temperature and local velocity of working medium. The receivers of total and static pressure of pressure tube and the thermo-sensitive device are placed coaxially with the conditional axis relative to cross section of the pipeline with possibility of determination of local velocity of working medium, and the temperature sensor is placed downstream of the pressure tube in direction of working medium flow. The bypass meter provides increase of accuracy of measurement of flow rate for media with variable thermo-physical properties due to carrying out correction with simultaneous determination of useful-energy value of natural gas. The increase of accuracy is achieved due to better consideration of not only gas physical parameters, but its useful-energy value, this can be a commercial parameter at calculation of volume of natural gas consumed.