

Method for check of gas flow rate meters and device for its realization relate to means for measurement of gas flow rate and can be used for checking meters and flow rate meters for gas. Method for checking gas flow rate meters includes gas supply through installed in sequence checked gas flow rate meter and reference device for gas volume that perform measurement of gas passing through those flow rate, measurement of temperature and pressure of gas, reading information obtained, collection, transfer and processing of that information with determination of any point of flow rate by means of interpolation with cubic splines. Device consists of system of pipelines with two units for formation of gas flow, three reference units for gas volume and meter being checked, this is installed in sequence with standard of gas volume, temperature and pressure transformers, units for signal reading, system for collection, transfer and processing information and device as T-like pipeline for smoothening air that goes out from meter being checked pulses. Units for formation of gas flow have in their set micro-processor device that changes gas flow rate depending on information obtained by interpolation with cubic splines and that has interface connection with system for collection and processing information. Technical result is in decrease of error of measurement in broad range of characteristic and smooth change of gas flow rate with least errors and least power consumption.