Gas quality parameters – density, relative density, nitrogen, carbon dioxide and the upper calorific value – all participate in the process of the conversion of the volume of gas measured by the gas metering equipment to standard conditions, ie temperature of 0°C and absolute pressure of 1.01325 bar. When measuring the volume of gas with an excessive pressure of up to 6 bar, the aforesaid parameters are entered into the gas volume correctors or flow computers as fixed values. To increase the accuracy of the volume conversion, these parameters must be determined as accurately as possible. The methodology is presented here.