

The invention relates to the field of gas analytical instrument making industry. A sensor comprises working chamber, made from porous material (ceramics, net), and comparative chamber, placed in reservoirs with analyzed mixture, wherein heaters - resistance sensor are located symmetrically, having the same geometrical parameters and included into a bridge measuring circuit. The comparative chamber is made from porous material similar to the working one, and the comparative heater - resistance sensor is made with resistance less then this of the working chamber, and the thermal compensation sensor is connected to it.