

The invention relates to measuring engineering. Gas analyzer includes optically connected source of radiation, cuvette as integrating sphere, receiver of radiation. According to the invention source of radiation that includes not less than two crystals with p-n transitions with wave length of radiation of those agreed with wavelength of natural absorption of gas being analyzed is placed inside the cuvette in such way that its radiation is directed to opposite side with respect to radiation receiver, and inner surface of the cuvette and back wall of source of radiation are covered with same light diffusion material. The invention provides increase of sensitivity and accuracy of measurements, temperature stability and operation speed of gas analyzer.