Title (en)

METHOD FOR MEASURING THE CONCENTRATION OF GASEOUS SPECIES IN A BIOGAS

Title (de)

VERFAHREN ZUR MESSUNG DER KONZENTRATION VON GASSPEZIES IN EINEM BIOGAS

Title (fr)

PROCEDE POUR LA MESURE DE LA CONCENTRATION EN ESPECES GAZEUSES DANS UN BIOGAZ

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Application

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Abstract (en)

[origin: WO2020160880A1] The invention relates to a method for in situ measurement of the concentration of gaseous chemical species contained in a biogas (10) circulating in a line (20), for example of a biogas treatment plant or of a system utilizing a biogas. The method of the invention is implemented by means of an optical measurement system (40) comprising a light source (41) and a spectrometer (44). The source (41) emits UV radiation (42) through the biogas (10) within a measurement area (21) situated in the line. The spectrometer (44) detects at least a portion of said UV radiation having passed through the biogas (10) and generates a digital signal of the luminous intensity (50) depending on the wavelength of the portion of the UV radiation having passed through the biogas. A determination is then made of the concentration of the chemical species from the digital signal of the luminous intensity (50).

IPC 8 full level

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