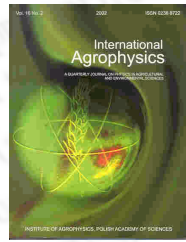




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Comparison of two- and three-electrode systems in measurements of oxygen flux density in soil\*

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abstract This paper presents a comparison of the results of potential flux density (OFD) in soil, determined by the voltammetric method, OFD, with the use of a three-electrode system of potentiostat, and a symmetrical two-electrode system of platinum electrodes. The studies have been performed on artificially prepared or nearing saturation soil samples, representative for mineral soils in Poland. The discussion of the results obtained leads to the conclusion that a possible alternative is a symmetrical two-electrode system to determine the potential flux of oxygen in soil. However, uncertainty of the results of measurements performed with the