



“Gheorghe Asachi” Technical University of Iasi, Romania



WIRELESS SYSTEM FOR MONITORING THE SOLAR RADIATION

Daniel T. Cotfas^{1*}, Petru A. Cotfas¹, Paul Borza², Doru Ursutiu¹, Cornel Samoila³

“Transilvania” University of Brasov, 29 Eroilor Blvd., 500036 Brasov, Romania

¹*Faculty of Technological Engineering*

²*Faculty of Electrical Engineering and Computer Science*

³*Faculty of Materials Science and Engineering*

Abstract

The article presents a method of monitoring the solar radiation components taking into consideration the isotropic model. The wireless solar radiation monitoring system developed is innovative and original in comparison with the systems already available on the market. The use of the wireless device, of the rechargeable batteries, of the sensors used for measuring the solar radiation components and the temperature make this system an autonomous and a portable one. An experimental prototype was realised. The data obtained for the solar radiation components were compared with the ones obtained by the SPN1 pyranometer.

Key words: monitor, photovoltaic cells, solar radiation, Tag4M, wireless

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* Author to whom all correspondence should be addressed: e-mail: dtcotfas@unitbv.ro; Phone: +40744351132