

Methodology for Calibrating Photocatalytic Sensor Output

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ABSTRACT

Many of the problems associated with conventional Photo Catalytic Processes, such as size, reaction time, and accuracy, were addressed by Whig and Ahmad's Photo Catalytic Sensor (PCS) in 2014. Transducers have inherent non-idealities that need to be calibrated and corrected. As a result of a study by Whig and Ahmad in 2015, they determined that the primary contributors to non-ideality are generally the nonlinear. Conventionally the calibration of the sensor has been done manually in the laboratory prior to the actual deployment in the system. This requires a lot of manual computation highly skilled manpower. To make this tedious procedure easy and to make PCS sensor more accurate, a novel sensor calibration with built-in calibration registers using FPGAs is proposed.

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