DEVELOPMENT OF EMBEDDED SOFTWARE FOR FLOWSTATION METERING USING VB.NET WITH MCCDAQ BOARD: A CASE STUDY OF PETROLEUM TRAINING INSTITUTE (PTI) DEMONSTRATION FLOWSTATION

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ABSTRACT

This paper presents a case study of converting an old pneumatic metering system of a Flowstation to a new system for digital display on a large screen. An analysis of the existing instrumentation system was carried out, and appropriate hardware and software platforms were selected. The system software was developed with MS Visual Studio 2010 and MS Access 2007. The Software system was tested with McDaq demo Board and the result was successful and satisfactory.

Keywords: Embedded system, Flowstation, VB.NET, MS Access, Database, Framework.