ABSTRACT

SCADA stands for Supervisory Control and Data Acquisition: As the name indicates it is not a full control system, but rather focuses on the supervisory level. Several parameters like temperature, proximity, pressure, flow, level, etc are required to be monitored continuously at the process plants in industries. These measurements are facilitated by the various analog to digital converters. Technically it is not always feasible to have the controlling station in the vicinity of the process plant. This digital data is acquired by data acquisition techniques by the controlling station either by wired or wireless transmission. Wireless SCADA technology could be implemented by using GPRS-enabled GSM mobile phones. Thus the primary purpose of SCADA is to monitor, control and alarm plant or regional operating systems from a central location.

KEYWORDS: Data Acquisition, RTUs, HMI, GPRS