This site consists of a mission critical pump station. It houses pumps powered from external 3 phase AC and is controlled with a Modbus enabled PLC. In this scenario, the RSM system provides a complete operational status and environmental alarm monitoring solution. Operational information is gathered from the PLC controller through the use of the industry standard Modbus protocol. The 3 phase AC supply is monitored through the use of the RSM AC Monitor module. The RSM system also provides for the monitoring of a smoke detector, PIR motion sensor and a magnetic door sensor. In addition to this, the RSM system controls the magnetic lock on the door of the installation.
Scenario Scope

A standalone GSM-based monitoring and control solution is created by installing the GSMIOLogic Application onto the RSMLite controller. Site alarms and events can be forwarded via SMS to a specified set of GSM numbers. Access to the site is controlled by SMS from an authorised set of GSM numbers. In addition, simple logic functions can be specified for the GSMIOLogic Application in order to perform control functions such as an emergency shut down of the station in the case of fire etc. These logic functions can also be controlled via SMS.

This installation is a fully autonomous system and requires no high level server for the control and monitoring of the site.

Required Components

RSM BOM:
- 1 x RSMLite Site Controller
- 1 x RSM AC Monitor Module

Additional Controller Software:
- GSMIOLogic Application