

APPLICATION BRIEF

2020

PORTABLE DATA ACQUISITION SYSTEM

Brief Description:

Emerging Technologies, LLC. was called upon to configure a customer purchased data acquisition system and train the users how to configure and operate the system.

The system utilizes a portable, multi channel, data logger and a variety of different analog sensors. The stored data is retrieved from the data logger via a notebook computer. Using the computer, the operator can also view real time data. Math channels were configured as well.

Multiple signal types were used; thermocouple, 4 – 20 mA, 0.1 – 5.1 VDC, 0 – 10VDC, and mV strain gauge.

Sensors included, type “J” thermocouples, pressure transmitters, turbine flow meters, string pot displacement sensor, load cells, and accelerometer.

Customer Benefit:

The customer was able to focus on the design of the system as well as other plant activities while capitalizing on Emerging Technologies expertise in data acquisition system development.

This approach reduced the demand on plant resources time and effort to complete the project by utilizing personalized support and training from Emerging Technologies, LLC.



ET Responsibilities:

- Functional Specification Generation
- Design / Engineering
- Fabrication
- ✓ Programming – Software
- Programming – Firmware
- Field Installation
- ✓ On-Site Commissioning
- ✓ Post Commissioning Support
- Other

Technologies:

- Embedded Computers
- Microcontrollers
- Visual Software
- Control Software
- ✓ Data Acquisition
- Computer Based Control
- Communications
- System Integration
- Other

Customer Category:

- OEM
- ✓ Industrial Manufacturer
- Custom Equipment
- Utility
- R&D