



Shipyards Fire Monitoring System

A Korean system integrator applied Advantech's ADAM-4000 series to existing telephone lines in order to set up a fire alarm system for Samsung Heavy Industries (SHI).

Sanghoon Lee
System Integrator
Younghwa Co., Ltd.
S. Korea



lines by modem usage and ADAM-4520 converters. ADAM-4050 is a low-cost, 15-ch. DIO module. It provides 7 digital input channels and 8 digital output channels. Under this system configuration through the ADAM-4050 units, the shipyard's status is monitored centrally and SHI's emergency

management is highly automated. The application software is developed in a Visual Basic environment.

INTRODUCTION

Samsung Heavy Industries (SHI), Korea, enjoys a good reputation among customers worldwide for delivering top quality products on time. SHI manufactures super-large container ships (5,000TEU), crude oil tankers, bulk carriers, as well as high-value added vessels such as drill ships, FPSO tankers, LNG carriers and surface effect ships.

SYSTEM REQUIREMENTS

With the completion of Dock No.3, SHI has expanded its annual shipbuilding capacity to 1,800,000 GT, and is now the 3rd largest in the world. The area of this shipyard is approximately 3,292,576m². Due to the vast space of the plant and out of safety concern for the workers, SHI initiated a fire alarm project to monitor the fire alarm status of the whole plant on a real-time basis.

SYSTEM DESCRIPTION

Advantech ADAM-4050 Digital I/O Modules have been installed in 5 different plant locations to collect digital signals from field fire sensors. Real-time information is immediately fed back through existing telephone

CONCLUSION

Samsung Heavy Industries chose Advantech, since Advantech's ADAM-4000 Remote Data Acquisition series is flexible, easy to use and cost effective. SHI is satisfied with the new fire monitoring system and plans to set up the same shipyard fire monitoring system in 3 other locations. ■

