



## ICP DAS Embedded Controllers Embedded Controller for Alarm System

ICP DAS controllers are powerful embedded controllers. With 40 Mhz CPU and powerful features like PID control, motion control, local data logger, dial-up modems, it can be used in machine and process control. ISaGRAF is an robust IEC 1131-3 standard embedded software allowing the customers to program by their own favorite languages. This highly integrated hardware and software solution provides a technology foundation that facilitates accelerated application/product development and accelerates time to market. Designed to build for machine and process control applications, ICP DAS' ISaGRAF version of controllers enable the development of multiple configurations and distributed systems in a networked environment. The customer chose ICP DAS I-8817 controller, an ISaGRAF version of ICP DAS controller, because it surpassed the quality assurance tests for flexible communication, powerful features and proved to be the best priced solution.

One of ICP DAS' customers with a factory located in Taoyuan, 40 kilometers south of Taipei previously used Siemens and AB PLC. However, the alarm system at the manufacturing facility benefited by the new ICP DAS controllers since it would no longer be necessary to utilize a PC or touch monitor to configure and control the alarm system. The one hundred (100) Digital Inputs and one hundred and ten (110) Digital Outputs with One (1) I-8817 and two (2) I-8417 controllers collect signals from the entire facility and control the entire process. The information displays on I-8817 and I-8417, and ring. On board dial-up Modem function allows the controllers to page someone and to send alarm messages through regular phone line once the alarm happens.

In summary, the outstanding features of the embedded controller for the alarm system has:

- PID control
- Motion control,
- Local data logger
- Dial-up modems
- Can be used in machine and process control
- Multi-language programming ability
- Development of multiple configurations

*Please see the diagram for a visual representation of the process.*

**Application Story: ISaGRAF Embedded Controller for Alarm System**

