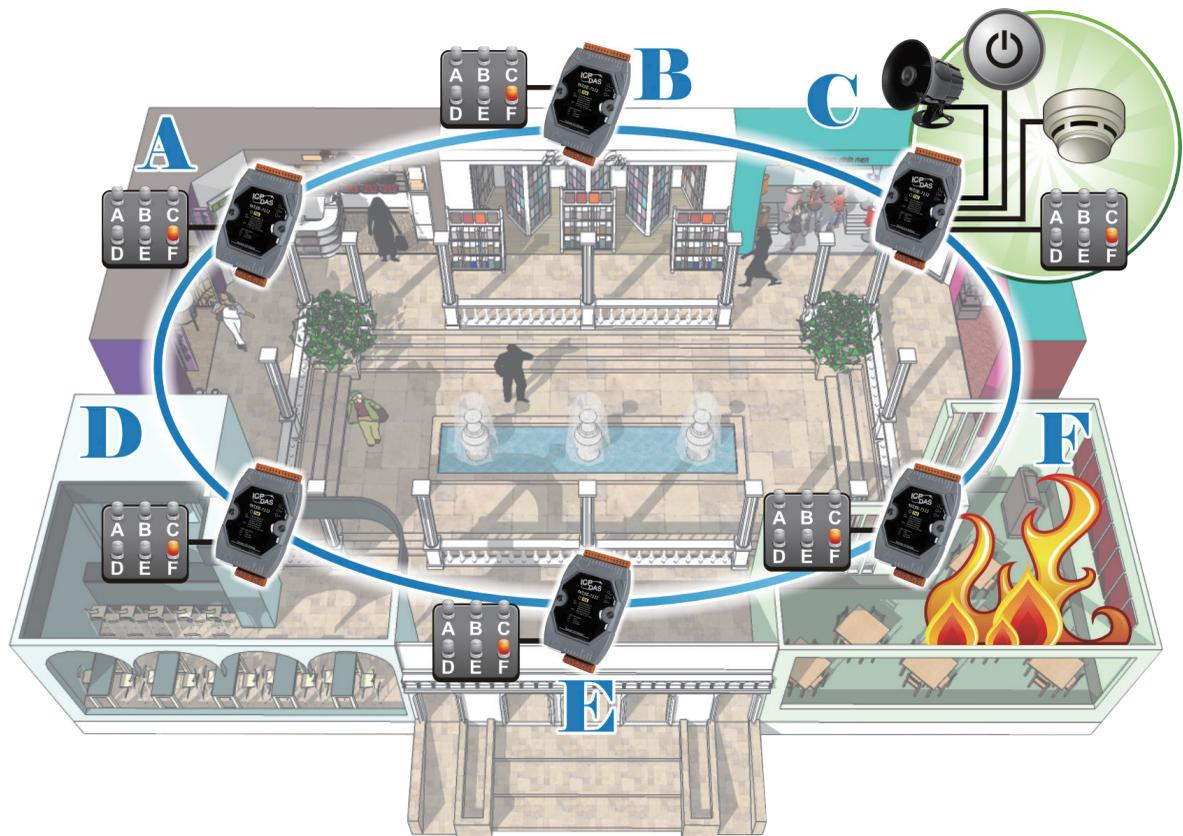


WISE Application in Fire Alarm Linked System

By Alan Jhu

For decades fire warning alarm systems have proved very important in saving lives and property for fire accidents happen all the time and they can be fatal. By using the traditional fire alarm system, when a fire is detected, the system will send alarm to the control center notifying where the fire is. However the occupants nearby the fire scene will not receive the notification and may not know the exact location of the fire accident. They may not have enough information to find the best escape route or make best decision to protect their lives and property. By using WISE, the advanced P2P function can be used to build an intelligent fire alarm linked system to provide better solutions for fire alarm applications.



WISE/PMC

Description:

Assume that in a building, there are six regions require installing linked fire alarm system. Install 6 WISE-7152 modules in these 6 regions, and the DI channels on each WISE-7152 are connected to several temperature or smoke sensors to detect if a fire occur in that region. One dismiss alarm button

that allows dismissing the alarm manually. At the same time, the DO channels on each WISE-7152 are connected to 6 warning lights and one warning speaker. Each warning light represents one region and shows if there is any unusual event that happening in that region.

The Advanced P2P function of WISE makes it

possible to share the data in real time. When any WISE-7152 detects that a fire accident occurs, it will immediately notify all WISE-7152 modules distributed in other regions. And the corresponding warning lights connected to each WISE-7152 will be turned on to show the exact region the fire accident occurs. The alert will be broadcasted to guide occupants nearby to leave the fire scene. At the same time, the related personnel also receive the notification and are able to response to the emergency immediately. After the fire accident is under control, the related personnel could push the dismiss alarm button to dismiss the alarm. At this point, all warning status on WISE-7152 modules will be reset to normal again.

In addition, in order to ensure the network linked operations function appropriately between WISE-7152 modules, another WISE-7152 could be installed to monitor the network status of all other WISE-7152 modules. Through the sharing information ability of advanced P2P function, this WISE-7152 will communicate with the other 6 WISE-7152 modules regularly, and the light indicators of the 6 DO channels on this WISE-7152 will show the network status of the entire fire alarm system. The operator could easily verify the network status of each module in this fire alarm linked system by the indicator and could quickly find and fix the module that is failed to response, therefore, ensure the normal operations of the system.

Device:

WISE-7152

WISE-7152 features 8 DI channels & 8 DO channels and 8-channel. It offers a user-friendly and intuitive web site interface that allows users to implement IF-THEN-ELSE control logic on controllers just a few clicks away; no programming is required. This module WISE-7152 supports Counter, Timer, Email operations and Modbus/TCP protocol to make

seamless integration with SCADA software available.

Benefits:

- No programming required to implement logic settings of the system
- Build up a system immediately; it will dramatically reduce the time and labor spent on system development.
- By using Ethernet as the communication network for the entire system and with the POE feature WISE supported allows to reduce wiring.
- With advanced P2P function, multiple WISE modules could share channel information via network in real-time and could response immediately.

For more WISE product information, please refer to ICP DAS web page: <http://www.icpdas.com> or refer to WISE web page: <http://wise.icpdas.com>.

Download WISE Intelligent Controllers Brochure:

<http://www.icpdas.com/root/support/catalog/pdf/Brochure/WISE-Brochure-en.pdf>



The brochure cover features the ICP DAS logo at the top left. The main title 'WISE' is prominently displayed in a large, stylized font with a blue and white gradient. Below the title, it reads 'Web Inside. Smart Engine'. The text 'A Web-based Intelligent PAC Controller' is followed by a list of product models: WISE-5200, WISE-58XX, and WISE-71XX. The TAIWAN EXCELLENCE logo is visible in the bottom right corner of the brochure. A QR code is located in the bottom left corner of the brochure image.