



Music Fountain Control System

The Music Fountain employs a kind of on-spot industrial control system that incorporates the latest advanced scientific technologies prevailing around the world, including music control, programmable control and intelligent control technologies.

The master control system of the music fountain consisting of multi-media industrial computers, is capable to recognize the melody, rhythm, volume and frequency of the music pieces and realize the real-time control of the whole system and the synchronization of water and music. It is set up with the convenient operation interfaces and has the function of programming music tracks.

There are three kinds of MF control systems: centralized control, on-spot bus control and network bus control.

(1) Centralized Control System

The centralized control system has a radiated cabling structure and is suitable for such small size MF as there are not too many water patterns and the control room is nearby the pools. Because the cost invested on cabling will increase if the pools are far from the control room.

(2) On-spot Bus Control System

On-spot bus is a serial data communication link which connects the basic local controls to its upper controls, i.e. 485 bus and CAN bus. On-spot bus has the following advantages:

- a. One transmission line is able to control more than one equipment. The control system is thereby simplified, which leads to the shorter construction period and easier installation and maintenance.
- b. On-spot bus employs the digital communication technology which has the character of anti-jamming and high accuracy.
- c. It's more reliable and flexible due to the local control function.

Network Bus Control System

Network Bus Control System has a fundamental improvement in performance compared with On-spot Bus Control System though they are quite similar in structure.

- a. Network Bus Control is a completely distributed system. It speeds up the electrical system and satisfies the real-time control need of music fountains. Also, it runs more stably.
- b. It can support the bus control structure, radiated structure as well as the mixed ones.
- c. The main difference between Network Bus Control and Local Bus Control is that the former employs a special network operation system to ensure the operation of all equipment around the network.
- d. The commissioning and maintenance of the electrical system are more convenient.

Programmable Fountain

The control system of the programmable fountain uses the timing routine to control the change of water patterns. The pumps can be either controlled by switches or by variable frequency drive. When there are color lights to illuminate the water, that's the so-called "Colored Programmable Fountain".



Special Fountain

Entertainment fountain, waterfalls, super-high fountain and other specialty fountains as well all need special control system.



Music Fountain Control Cabinet

Music Fountain Control Cabinet adopts special power system for music fountain, which meets the demands better. Fountain cabinets allocate power circuit for each water pattern in accordance with the actual power allocation and equipment type. All cabinets are GGD standard products with certificates from authorities. The electrical appliances are world-famous brands like "Schneider" and "Siemens". The system will be equipped with protection device for over-voltage, over-ampereage, Volt-shortage, phase-fault and short-circuit, which guarantees the system's reliable and safe operation.