

Overview

纲要

SmartGen pump control system can resist the influence of machinery, electric, vibration, thermal stress and damp environment.

SmartGen水泵控制系统可以承受机械、电气、振动、热应力以及在正常运行情况下可能遭受的潮湿影响。

SmartGen control system can start the pump unit in 5 seconds automatically. Supervision alarming and managing of fault are also realized in the system.

SmartGen控制系统能在5秒内自动启动泵组并对泵组运行过程中的故障进行监测、报警和处理。

SmartGen pump control system is universal, functional, and reliable. It can work with different kinds of diesel pump unit.

SmartGen水泵控制系统通用性强，功能齐全、性能可靠；可与各类柴油机水泵组配合。

Application

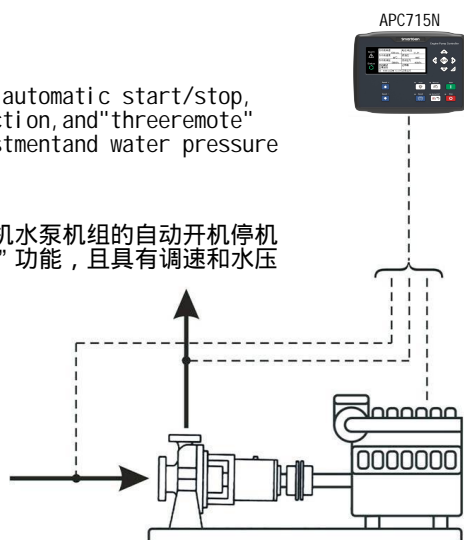
应用方案

Practical Pump Unit---APC715N

实用型水泵机组解决方案---APC715N

Control pump unit to realize automatic start/stop, data measurement, alarm protection, and "three remote" function, and with speed adjustment and water pressure detection function.

控制发动机水泵机组，实现发动机水泵机组的自动开机停机、数据测量、报警保护及“三遥”功能，且具有调速和水压检测功能。

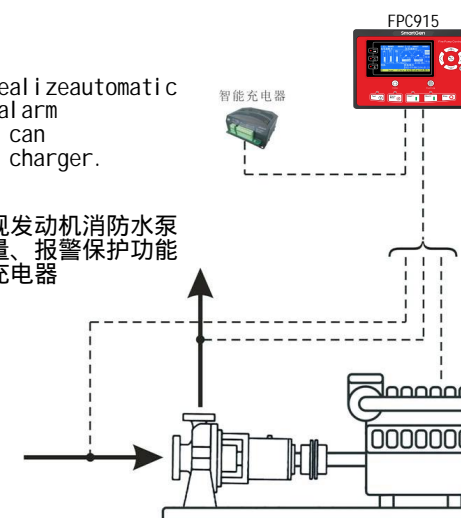


Fire Pump Unit Solution---FPC915

消防型水泵机组解决方案---FPC915

Control fire pump unit to realize automatic start/stop, data measurement, alarm protection function, and also can communicate with intelligent charger.

控制发动机消防水泵机组，实现发动机消防水泵机组的自动开机停机、数据测量、报警保护功能，还能和智能充电器通信智能充电器





APC615
水泵机组控制器
Pump Unit Controller

Characteristics:

1. Used for control and protection of the pump unit ;
2. RS485 communication interface to realize “Three Remote” function (Remote control, detection, and communication) ;
3. CANBUS interface for monitoring and controlling function ;
4. Relay and ECU engine CANBUS speed regulation interface ;
5. One speed sensor interface to detect engine speed ;
6. Six analog input ports to collect various parameters of engine and pump precisely ;
7. Multiple starting success conditions to select ;
8. Automatic and manual speed regulation function ;
9. Idle control function ;
10. Control function for heater, cooling unit and fuel pump ;
11. Maintenance function ;
12. Functions of event log, real-time clock and scheduled start/stop ;
13. Five programmable input ports and six programmable output ports.

特点：

1. 水泵机组控制与保护；
2. 具有RS485通讯接口，可实现“三遥”功能；
3. 具有CANBUS接口，可实现监测和控制功能；
4. 具有继电器调速接口、电喷发动机的CANBUS调速接口；
5. 具有1路转速检测口检测发动机转速；
6. 6个模拟量输入，可精密采集发动机及水泵的各种参数；
7. 多种起动成功条件可选；
8. 具有自动和手动调速功能；
9. 具有怠速控制功能；
10. 具有加热器、冷却器、燃油泵控制功能；
11. 具有维护功能；
12. 具有历史记录、实时时钟、定时开关机功能；
13. 5个可编程开关量输入/6个可编程输出。



APC715
水泵机组控制器
Pump Unit Controller

Characteristics:

1. Used for control and protection of the pump unit;
2. 4.3-inch color LCD screen to display, multiple languages to switch;
3. USB interface for programming;
4. RS485 communication interface to realize "Three Remote" function (Remote control, detection, and communication);
5. CANBUS interface for monitoring and controlling function;
6. Speed regulation interfaces of G0V analog for electric speed controller, relay and ECU engine CANBUS;
7. Two speed sensor interfaces to detect engine speed and gearbox speed;
8. Ten analog input ports to collect various parameters of engine and pump precisely;
9. Two battery voltage sampling interfaces for two sets of starting batteries switch;
10. Multiple starting success conditions to select;
11. Automatic and manual speed regulation function;
12. Idle control function;
13. PLC function to meet the need of complex system application;
14. Control function for heater, cooling unit and fuel pump;
15. Maintenance function;
16. Functions of event log, real-time clock and scheduled start/stop;
17. Function of subtotal running time/number(A, B);
18. Nine programmable input ports and ten programmable relay output ports.

特点：

1. 水泵机组控制与保护；
2. 4.3寸彩色液晶显示，支持多种语言切换；
3. 具有USB编程接口；
4. 具有RS485通讯接口，可实现“三遥”功能；
5. 具有CANBUS接口，可实现监测和控制功能；
6. 具有控制电调板的G0V模拟量调速接口、继电器调速接口、电喷发动机的CANBUS调速接口；
7. 具有2个转速检测口，可同时检测发动机转速和变速箱转速；
8. 10个模拟量输入，可精密采集发动机及水泵的各种参数；
9. 2个电池组电压采样口，可用于2组电池切换起动；
10. 多种起动成功条件可选；
11. 具有自动和手动调速功能；
12. 具有怠速控制功能；
13. 具备PLC编程功能，适合复杂系统应用；
14. 具有加热器、冷却器、燃油泵控制功能；
15. 具有维护功能；
16. 具有历史记录、实时时钟、定时开关机功能；
17. 具有小计运行时间/次数（A、B）；
18. 9个可编程输入口/10个可编程继电器输出口。



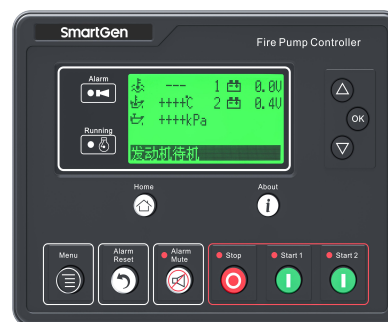
APC715N
柴驱泵组控制器
Engine Pump Controller

Characteristics:

1. Used for control and protection of the diesel engine driven pump unit ;
2. 4.3-inch LCD screen to display, multiple languages to switch ;
3. USB interface for programming ;
4. ETHERNET interface to realize remote monitoring function ;
5. Two RS485 communication interfaces to realize " Four Remote " function (Remote control, detection, communication and regulation) ;
6. CANBUS interface for monitoring and controlling function ;
7. Speed regulation interfaces of G0V analog for electric speed controller, relay and ECU engine CANBUS ;
8. Two speed sensor interfaces to detect engine speed and gearbox speed ;
9. Ten analog input ports (five fixed analog inputs and the others can be self-configured as resistance, current or voltage type of analog inputs) ;
10. Two battery voltage sampling interfaces for two sets of starting batteries switch ;
11. Multiple starting success conditions to select ;
12. Information shown in the homepage can be self-defined via host PC ;
13. Automatic and manual speed regulation function ;
14. Idle control function ;
15. PLC function to meet the need of complex system application ;
16. Control function for heater, cooling unit and fuel pump ;
17. Maintenance function ;
18. Functions of event log, real-time clock and scheduled start/stop ;
19. Function of subtotal running time/number(A, B) ;
20. Nine programmable input ports and ten programmable relay output ports.

特点：

1. 柴驱发动机泵组控制与保护；
2. 4.3寸LCD液晶显示，支持多种语言切换；
3. 具有USB编程接口；
4. 具有ETHERNET网口可实现远程监控；
5. 具有2个RS485通讯接口，可实现“四遥”功能；
6. 具有CANBUS接口，可实现监测和控制功能；
7. 具有控制电调板的G0V模拟量调速接口、继电器调速接口、电喷发动机的CANBUS调速口；
8. 具有2个转速检测口，可同时检测发动机转速和变速箱转速；
9. 10个模拟量输入（5个固定模拟量输入口，5个可灵活配置为电阻型、电流型或电压输入口）；
10. 2个电池组电压采样口，可用于2组电池切换起动；
11. 多种起动成功条件可选；
12. 可通过上位机自定义主界面显示信息；
13. 具有自动和手动调速功能；
14. 具有怠速控制功能；
15. 具备PLC编程功能，适合复杂系统应用；
16. 具有加热器、冷却器、燃油泵控制功能；
17. 具有维护功能；
18. 具有历史记录、实时时钟、定时开关机功能；
19. 具有小计运行时间/次数（A、B）；
20. 9个可编程输入口/10个可编程继电器输出口。



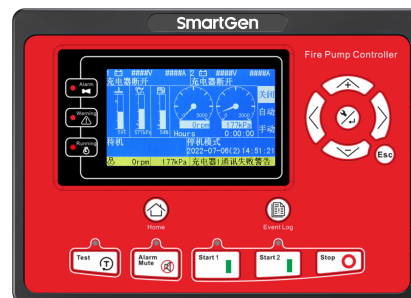
FPC615
消防水泵机组控制器
Fire Pump Controller

Characteristics:

1. Used for control and protection of the fire pump unit;
2. LINK interface to realize remote monitoring function;
3. One speed sensor interface to detect engine speed;
4. Two battery voltage sampling interfaces for two sets of starting batteries switch;
5. Three fixed analog input ports;
6. Dual starting function to control two starters respectively;
7. Maintenance function;
8. Functions of event log and real-time clock;
9. Three programmable input ports;
10. Nine fixed output ports and one programmable output ports.

特点：

1. 消防水泵机组控制与保护；
2. 具有LINK端口可实现远程监控；
3. 具有1路转速检测口检测发动机转速；
4. 2个电池组电压采样口，可用于2组电池切换起动；
5. 3个固定模拟量输入；
6. 拥有双启动功能，可以控制两个起动机分别起动机组；
7. 具有维护功能；
8. 具有历史记录、实时时钟功能；
9. 3个可编程开关量输入；
10. 9个固定输出/1个可编程输出。



FPC915
柴驱消防水泵机组控制器
Diesel Engine Fire Pump Controller

Characteristics:

1. Used for control and protection of the fire pump unit;
2. 4.3-inch color LCD screen to display, multiple languages to switch;
3. USB interface for programming;
4. LINK interface to realize remote monitoring function;
5. RS485 communication interface to monitor two battery chargers' working status and two sets of batteries' status;
6. CANBUS interface for monitoring and controlling function, which can be used for output module extension;
7. One speed sensor interface to detect engine speed;
8. Seven analog input ports to collect various parameters of engine and pump precisely;
9. Multiple starting success conditions to select;
10. Functions of dual starting and battery auto-switch;
11. Control function for heater, cooling unit and fuel pump;
12. Maintenance function;
13. Functions of event log, real-time clock and scheduled start/stop;
14. Function of subtotal running time/number(A, B);
15. Eighteen programmable input ports and nine programmable relay output ports.

特点：

1. 消防水泵机组控制与保护；
2. 4.3寸彩色液晶显示，支持多种语言切换；
3. USB编程接口；
4. 具有LINK端口可实现远程监控；
5. 具有RS485通讯接口，通过接口可以监测2个蓄电池充电器的工作状态以及两组电池状态；
6. 具有CANBUS接口，可实现监测和控制功能，同时可通过接口扩展输出模块；
7. 具有1路转速检测口检测发动机转速；
8. 7个模拟量输入，可精密采集发动机及水泵的各种参数；
9. 多种启动成功条件可选；
10. 拥有双启动功能及电池自动切换功能；
11. 具有加热器、冷却器、燃油泵控制功能；
12. 具有维护功能；
13. 具有历史记录、实时时钟、定时开关机功能；
14. 具有小计运行时间/次数(A、B)；
15. 18个开关量输入口/9个继电器输出口。