



APC615

APC615 Pump Unit Controller is designed for pump systems which controlled by engine. It allows automatic start/stop, data measurement, alarm protection as well as remote control, remote measurement and remote communication function. Utilizing the GOV (Engine Speed Governor) control function, the controller is able to stabilize the outlet/inlet pressure via regulating engine speed. Besides that, CANBUS (SAE J1939) interface enables the controller to communicate with various engines which fitted with/not with J1939 interface.

Product Code : 6040004

Power Supply : DC(8-35)V

Case Dimensions : 197*152*47(mm)

Operating Temp. : (-25~+70)°C

Weight : 0.70kg

COMPLETE DESCRIPTION

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APC615 Pump Unit Controller, reliable and easy to use, fits with LCD display and optional languages interface (including English and Chinese languages). Simultaneously the exact parameters of pump unit and engine are indicated by the LCD display on the front panel.

APC615 Pump Unit Controller adopts powerful 32-bit ARM microprocessor technology with following functions: precision parameters measuring, fixed value adjustment, time setting & set value adjusting and etc. The majority of parameters can be configured from front panel and all the parameters can be adjusted and monitored using PC (via RS485 or LINK port). It can be widely used in a number of pump control systems with compact structure, simple connections and high reliability.

PERFORMANCE AND CHARACTERISTICS

Main characteristics are as follows,

1. 132x64 pixel LCD with backlight, multilingual interface (including English and Chinese languages), and easy operation interface;
2. Improved LCD wear-resistance and scratch resistance due to hard screen acrylic;
3. Silicon panel and pushbuttons for better operation in high/low temperature environment;
4. RS485 communication port enabling remote control, remote measuring, remote communication via ModBus protocol;
5. Equipped with CANBUS port and can communicate with J1939 genset. It is not only can monitor frequently-used data (such as water temperature, oil pressure, engine speed, fuel consumption and so on) of unit, but also can control start, stop, and rise/drop engine speed via CANBUS port;
6. With speed regulation function (relay and CANBUS speed control interfaces), the controller is able to stabilize the outlet/inlet pressure via regulating engine speed;
7. Discharge pressure curve and flow curve are user-defined;
8. 6 analog sensors: 2 sensors can switch between resistor type and current type using jumper and the other 4 sensors can switch among resistor type, current type and voltage type using jumper;
9. More kinds of curves of temperature, oil pressure, fuel level can be used directly and users can define the sensor curves by themselves;
10. Precision measure and display parameters about Engine and pump unit; e.g. engine high water temperature, low oil pressure, over speed, high water pressure, low water pressure, over flow and other kinds of fault indication and protection function;
11. Auto and manual speed regulation functions that can be operated from the front panel of controller directly;
12. Idle speed control function;
13. All output ports are relay-out;
14. Parameter setting: parameters can be modified and stored in internal FLASH memory and cannot be lost even in case of power outage;
15. Multiple crank disconnect conditions (speed sensor, oil pressure) are optional;
16. Widely power supply range DC(8~35)V, suitable to different starting battery voltage environment;
17. Event log, real-time clock, scheduled start & stop pump unit (can be set as start pump unit once a day/week/month);

18. Can control engine heater, cooler and fuel pump.
19. With maintenance function. Actions can be set when maintenance time due;
20. All parameters used digital adjustment, instead of conventional analog modulation with normal potentiometer, more reliability and stability;
21. Waterproof security level IP65 due to rubber seal installed between the controller enclosure and panel fascia;
22. Metal fixing clips enable perfect performance in high temperature environment;
23. Modular design, anti-flaming ABS plastic enclosure, pluggable connection terminals and embedded installation way; compact structure with easy mounting.

Application

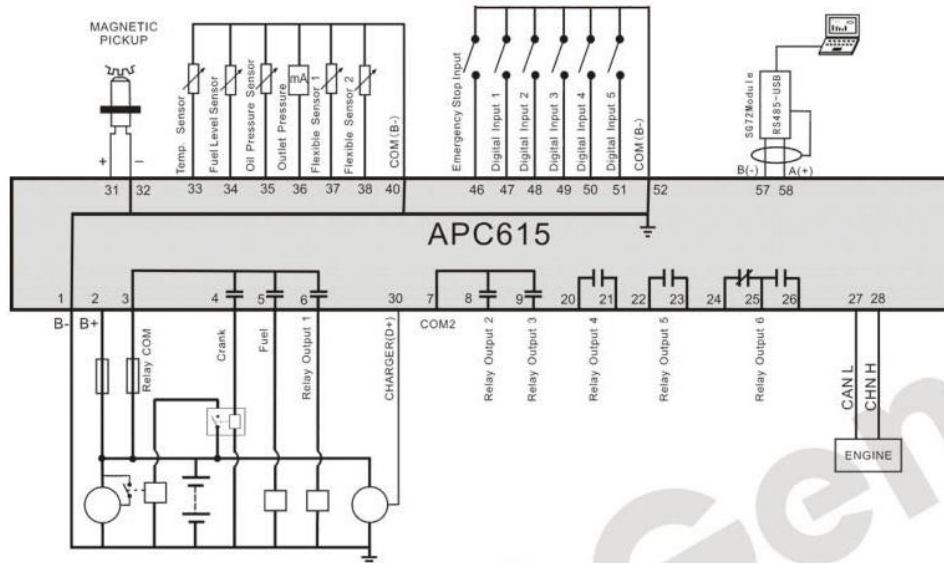


Fig. 5 - APC615 Typical Application Diagram

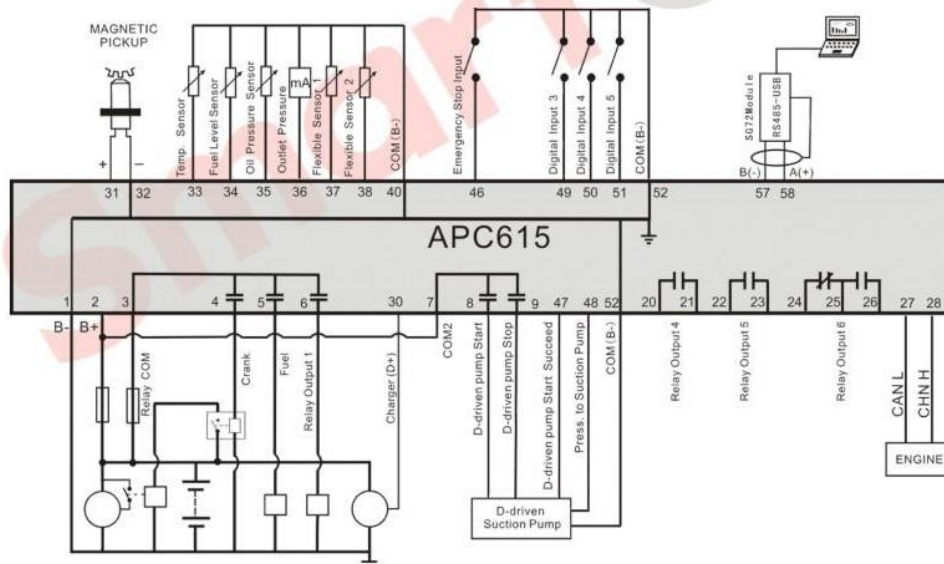


Fig. 6 – Typical Application with Diesel Driven Suction Pump