

FPC915 DIESEL ENGINE FIRE PUMP CONTROLLER USER MANUAL

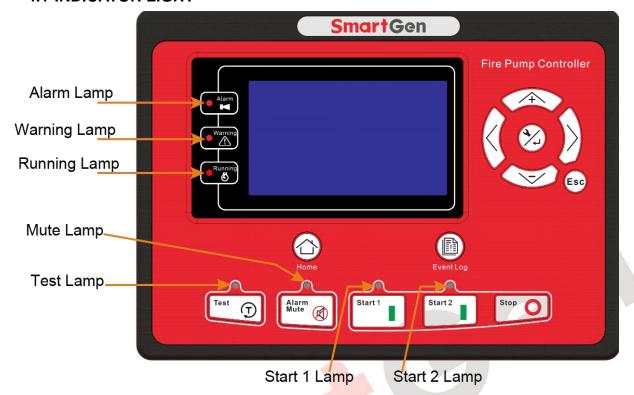


ZHENGZHOU SMARTGEN TECHNOLOGY CO.,LTD.



OPERATION

4.1 INDICATOR LIGHT



A Note: Selected indicators description:

Warning indicator and Alarm indicator:

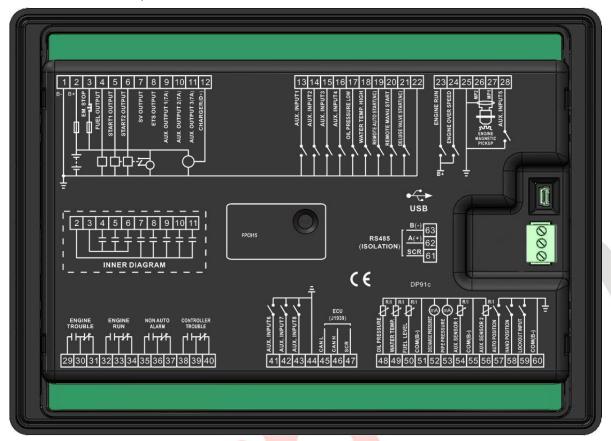
Alarm Type	Warning Indicator Alarm Indicator		
Warning	Slow flashing	Slow flashing	
Shutdown Alarm	Off	Fast flashing	

Running indicator: illuminated from crank successful to ETS while off during other periods.



6 CONNECTIONS

FPC915 controller back panel is shown below:



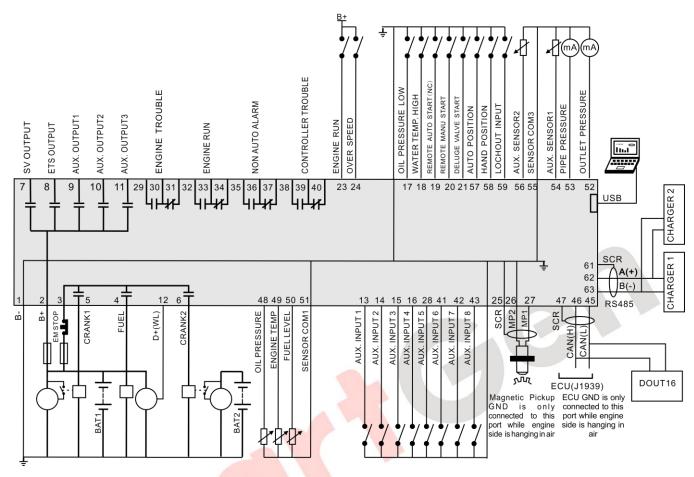
Description of terminal connections:

Pin	Function	Cable Size	Description	
1	B-	2.5mm ²	Connected with negative of starter battery.	
			Connected with positive of starter battery. If wire length is	
2	B+	2.5mm ²	over 30m, better to double wires in parallel. Max. 20A fuse is	
			recommended.	
3	Emergency Stop	2.5mm ²	Connected with B+ power supply via emergency stop button.	
4	Fuel Relay Output	1.5mm ²	B+ power is supplied by terminal 3, rated 16A	
5 Start Relay	Ctart Dalayd Output	1.5mm ²	B+ power is supplied by terminal 3,	Control the starter via
	Start Relay i Output		rated 16A	battery1.
6 Start Relay2 Output	1.5mm ²	B+ power is supplied by terminal 3,	Control the starter via	
	Start Relay2 Output	1.011111	rated 16A	battery1.
7	SV Output	1.5mm ²	B+ power is supplied by terminal 2, rated 7A	
8	ETS Output	1.5mm ²	B+ power is supplied by terminal 2, rated 7A	
9 Aux. Output 1	Aux Output 1	1.5mm ²	B+ power is supplied by terminal 2,	
	Aux. Output 1		rated 7A	Details see form 2
10	Aux. Output 2	1.5mm ²	B+ power is supplied by terminal 2,	Details see form 2
			rated 7A	



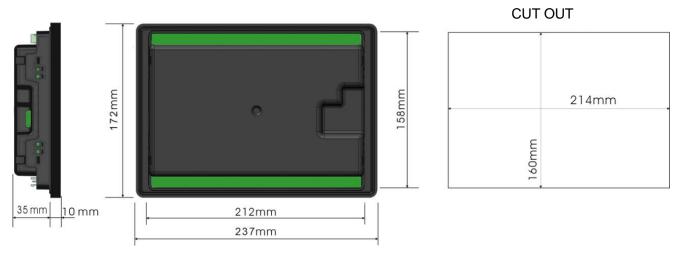
9 TYPICAL APPLICATION

FPC915 TYPICAL APPLIACTION





10 INSTALLATION



Controller is panel built-in design; it is fixed by clips when installed.

1) Battery Voltage Input

NOTE: FPC915 controller can suit for widely range of battery voltage DC(8~35)V. Negative of battery must be connected with the engine shell soundly. The diameter of wire which from power supply to battery must be over 2.5mm². If floating charge configured, please firstly connect output wires of charger to battery's positive and negative directly, then, connect wires from battery's positive and negative to controller's corresponding input ports in order to prevent charge disturbing the controller's normal working.

2) Speed Sensor Input

NOTE: Speed sensor is the magnetic equipment which be installed in starter and for detecting flywheel teeth. Its connection wires to controller should apply for 2 cores shielding line. The shielding layer should connect to shielding GND terminal in controller while another side is hanging in air. The else two signal wires are connected to MP1 and MP2 terminals, moreover, MP2 has already connected to B- innerly. The output voltage of speed sensor should be within AC(1~24)V (effective value) during the full speed. AC12V is recommended (in rated speed). When install the speed sensor, let the sensor is spun to contacting flywheel first, then, port out 1/3 lap, and lock the nuts of sensor at last.

3) Output And Expansion Relay

NOTE: All outputs of controller are relay contact output type. If need to expand the relays, please add freewheel diode to both ends of expand relay's coils (when coils of relay has DC current) or, add resistance-capacitance return circuit (when coils of relay has AC current), in order to prevent disturbance to controller or others equipment.