LED6 configuration and instructions V1.8

Panel Design and Display

Parameters Settings

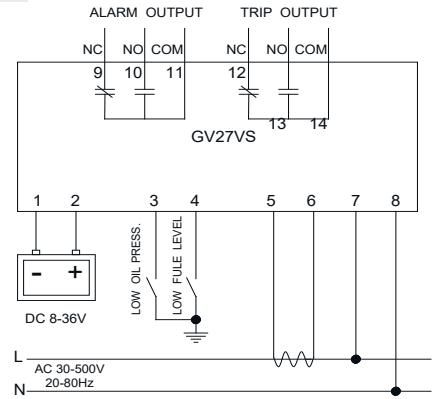
Press “PROG” for 3 sec, when “P-00” is displayed, the system will enter the setting page and display the first option.

Press “+”or“—”to choose the options and press “PROG” to set. Press “+”or“—”again to set the right value. Then press “PROG” to revert back to last layer and press “PROG” again for more than 4 sec to save the value. **When the parameters are modified, it will take effect immediately.**

NO.	Parameter	Range *(defaults)*	Notes
P00	Alarm function	0:Disabled ***1:Available***	All the alarm indications and outputs are forbidden if it is set as 0.
P01	Gens AC system	0:1ph 220V 1:3ph 380V 2:120V/240V ***3:220V/380V*** 4:127V/220V	**0:** Power=voltage * current, Current=phase current; Rated phase= 230V. **1:** Power=voltage/1.732 * current*P20, Current=phase current*P19; Rated phase= 230V. **2:**Input≤165V:Power=voltage*current*2, Current=phase current*2; Input>165V: Power=voltage * current , Current=phase current ;Rated phase= 230V. **3:**Input≤300V:Power=voltage*current, Current=phase current; Input>300V: Power=voltage/1.732*current *P20, Current=phase current*P19;Rated phase= 230V. **4:**Input≤165V:Power=voltage*current, Current=phase current; Input>165V:Power=voltage/1.732*current *P20, Current=phase current*P19;Rated phase= 127V.
P02	Rated frequency	***0:50Hz*** 1:60Hz	Calculate the alarm value.
P03	Maximum total power	0-50.0KW ***(6.3KW)***	Calculate the alarm value.
P04	Maximum current	0-150.0A ***(25.2A)***	Set the maximum current of the generator to calculate the over current alarm value.When the generator type is 400V three-phase, it is set to single-phase maximum current;When the generator is 230V / 400V or 127V / 220V, the maximum single-phase current * 0.9 when the generator is set to 230V or 127V;When the generator is equal power 120V / 240V,The set voltage is the maximum single-phase current at 240V;The maximum total current is set when the generator is single phase.
P05	Over freq alarm	0-200% ***(114%)***	Over Frequency Alarm Value = Rated Frequency * Percentage. If the value is 200%, then the alarm is disabled.
P06	Under freq alarm	0-200% ***(85%)***	Under Frequency Alarm Value = Rated Frequency * Under Frequency Percentage. If the value is set as 0%, then the alarm is disabled.
P07	Over voltage alarm	0-200% ***(115%)***	Over voltage Alarm Value = Rated voltage * Percentage. If the value is set as 200%, then the alarm is disabled.
P08	Under voltage alarm	0-200% ***(85%)***	Under voltage Alarm Value = Rated voltage * Percentage. If the value is set as 0%, then the alarm is disabled.
P09	Current over-load alarm	0-200% ***(100%)***	If the Gens AC system is set as 0,1,and 2,then Over current = Maximum current * Percentage. If the Gens AC system is set as 3, When the generator output is 1 phase 230V,then Over current = Maximum current * Percentage, When the generator output is 3 phase 400V, Over current = maximum current*1.09 /3* Percentage. If the value is set as 200%, then the alarm is disabled.
P10	Over total power alarm	0-200% ***(100%)***	Over total power alarm Value = maximum total power * Over total power Percentage. If the value is set as 200%, then the alarm is disabled.
P11	Low battery voltage warning	0-32.0V ***(8.0V)***	When the battery input is lower than the warning value and comes into under battery voltage delay but still lower (Normal alarm delay), then under battery voltage warns. if the value is set as 0, then the under battery voltage is disabled.
P12	Emergency alarm delay	0-10.0s ***(1.5s)***	Over frequency, over pressure and low oil pressure alarm delay time.
P13	Normal alarm delay	2.0-20.0s ***(5.0s)***	The delay time of under frequency, under voltage alarm, low fuel level warning, low battery voltage warning, and water level switch alarm.
P14	Over current delay	0-3600s ***(10s)***	Current over-load alarm delay.
P15	Page-change delay	1-120s ***(120s)***	Interval time for water temperature and fuel temperature, the max time is manually change.
P16	Freq. for start success	0-70% ***(40%)***	Freq. for start success value= Rated Freq.* Percentage. When the frequency is over than the pre-set value once on power, then it is regarded that engine crank successfully.
P17	Safety delay	3-300s***(10s)***	This delay only responds to over frequency and over voltage alarms.
P18	Alarm output delay	0-120s ***(120s)***	Alarm relay output setting. 0:alarm output disabled, 120:alarm output all the time.
P19	Current display	***1:1 multiple*** 3:3 multiple	Display current = actual current * display multiple.
P20	Power display	1:1 multiple ***3: 3 multiple***	Display current = actual current * display multiple.
P21	CT rate	5-150A***(50A)***	Used for setting generator CT primary current.
P22	CT Sec. current	***50.0:50mA*** 62.5:62.5mA	Chose the secondary rated current.
P23	Alarm action	0:stop ***1:trip***	0: All alarms are stopped directly (alarm relay action); 1: When over voltage, under voltage, low frequency,low oil pressure and low fuel level alarm occurs, first trip, delay 1(ow fuel level:600S), then stop; when over current and over power alarm occurs, trip but not stop. When over frequency alarm occurs, trip directly and stop.
P24	Low fuel level trip delay	0-3600s ***(20s)***	When the low fuel level warning is effective, the trip relay will act after the delay setting time.
P25	Low fuel level alarm delay	0-3600s ***(30s)***	When the low fuel level is alarmed and tripped, the shutdown relay will act after the time delay is set.
P26	4-pin function selection	0:Disabled ***1:Oil level switch*** 2:Water temperature switch 3:Emergency stop switch 4:Water level switch	

Meaning of alarm code: `0 IL` : low oil pressure switch alarm. `FUEL` : The oil level switch alarms.`HIGH`: Temperature switch alarm. `ES` : Emergency stop alarm. `LL` : Low water level alarm.

Typical diagram



Warning: Please don’t move battery during running status or it may cause the meter failure.

Notes

1.If the system is checked and the frequency is over " Freq. for start success" (P12), the meter is connected to mains power, then it will set the genset as cranked successfully. which means the alarm will occur after the safety delay when the fault is checked.

2.To clear an alarm, press “PROG”.