

# HSC941

## 燃气发电机组控制器

GAS-POWERED GENSET CONTROLLER



### 简介

燃气发电机组控制器用于单机自动化系统，有模拟量采样接口，通过驱动步进电机调节节气门开度，实现速度调节。

### 特点

- 速度调节功能(通过驱动步进电机)
- 发电过压、欠压、过频、欠频、过流保护功能
- RS485通讯接口，支持MODBUS协议
- 控制保护功能
- 采集并显示发电三相电压、三相电流、频率、功率参数
- 3个模拟量输入
- 启动成功条件可选
- 液晶显示LCD为132×64，带背光
- 适合于三相四线、单相二线、三相三线、二相三线电源50Hz/60Hz系统

### Overview

The Gas-Powered Genset Controller is used for automation system of single genset, which has analog sampling interfaces. It can regulate the engine speed by driving the stepper motor to adjust the throttle position.

### Features

- Speed regulation function (by driving a stepper motor)
- With Gen over/under voltage, over/under frequency, over current functions
- RS485 communication port, which supports MODBUS protocol
- Control protection function
- Collect and display generation parameters of 3-phase voltage, 3-phase current, frequency and power
- Three analog input ports
- Optional conditions of crank disconnection
- LCD screen with 132×64 resolution and backlight
- Suitable for 50Hz/60Hz AC system of 3P4W, 3P3W, 1P2W and 2P3W

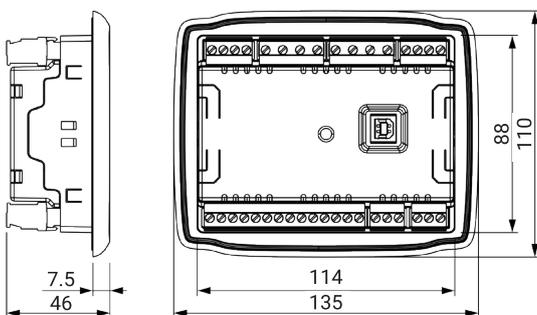


## ● 技术参数 Technical Parameters

直流供电 DC Power	DC(8~35)V连续供电	DC(8~35)V
功耗 Power Consumption	待机时≤2W 工作时<8W(步进电机调节时)	Standby mode: ≤2W Running: <8W (when stepper motor is regulating)
交流发电机频率 Alternator Frequency	50Hz/60Hz	50Hz/60Hz
电压和电流 Voltage & Current	三相四线 (15~360)VAC (ph-N) 三相三线 (30~620)VAC (ph-ph) 单相二线 (15~360)VAC (ph-N) 二相三线 (15~360)VAC (ph-N) 额定: 20mA	3P4W (15~360)VAC (ph-N) 3P3W (30~620)VAC (ph-ph) 1P2W (15~360)VAC (ph-N) 2P3W (15~360)VAC (ph-N) Rated: 20mA
环境 Environment	工作温度: (-25~+70)°C 工作湿度: 相对湿度(20~95)%RH 贮存温度: (-25~+70)°C 防护等级: IP65	Working Temperature: (-25~+70)°C Working Humidity: (20~95)%RH Storage Temperature: (-25~+70)°C Front panel: IP65
瞬态调速率 Transient Speed Regulation Rate	突减负载时<+10% 突加负载时>-15%	Sudden decreased load <+10% Sudden increased load >-15%
步进电机规格 Stepper Motor Specifications	2相混合式, 驱动电流≤1A	2-phase hybrid type, and drive current ≤1A
标准和认证 Standards & Certificates	CE认证 振动: (5~8)Hz: ±7.5mm (8~500)Hz: 2g IEC 60068-2-6 碰撞: 25g <sub>n</sub> , 16ms, 半正弦 IEC 60255-21-2 冲击: 50g <sub>n</sub> , 11ms, 半正弦 三个互相垂直方向的每一方向连续 施加三次冲击, 即共18次 IEC 60068-2-27	CE Certification Vibration: (5~8)Hz: ±7.5mm (8~500)Hz: 2g (IEC 60068-2-6) Bump: 25g <sub>n</sub> , 16ms, half-sine (IEC 60255-21-2) Shock: 50g <sub>n</sub> , 11ms, half-sine half-sine, apply three shocks successively in each direction of three mutually perpendicular axes of the specimen, which means 18 shocks in total (IEC 60068-2-27)

## ● 尺寸 Dimensions

单位(Unit): mm



## ● 端口 Ports

开关量输入(5) Digital Input (5)	RS485	发电电压采样 Gen. Voltage Sample	电流采样 Current Sample
			USB
直流工作电源及急停 DC Power & E-Stop	开关量输出(6) Digital Output (6)	D+	模拟量输入(3) Analog Input (3)
		转速 Speed	步进电机调节接口 Stepper Motor Regulation Port