

# HGM401/HGM501 小型发电机组控制器

## GENSET CONTROLLER



HGM401



HGM501

### ● 简介

适用单台发电机组启动及保护，可广泛应用于各类小型柴油及汽油发电机组。实现发电机组的开机 / 停机、数据测量、报警指示、停机保护等功能。LED 数码管显示，操作简单，运行可靠。

### ● 特点

- 数码管显示单相电压或线电压、总有功功率（通过单相功率计算得出，此时认为负载是平衡负载）
- 多功能数码管，显示单相频率、单相电流、电池电压、累计运行时间、发动机温度、发电机温度
- 欠压、过压、欠频、过频、过载、超温保护功能，保护时先发出闪烁报警提示，报警延时后进行停机保护
- 油压低开关量输入，运行中出现油压低立即关闭发动机
- 前面板按键可以切换显示各种参数
- HGM401可通过Type-C接口连接上位机进行参数配置
- HGM501和HGM401功能方面互相兼容,HGM401体积更小

### Overview

Used for control and protection of single genset. It can be widely used for a large number of diesel and petrol generator sets to realize the start/stop, data measurement, alarm indication, shutdown protection and other functions. The controller is fitted with 7-segment LED display, which is reliable and easy to use.

### Features

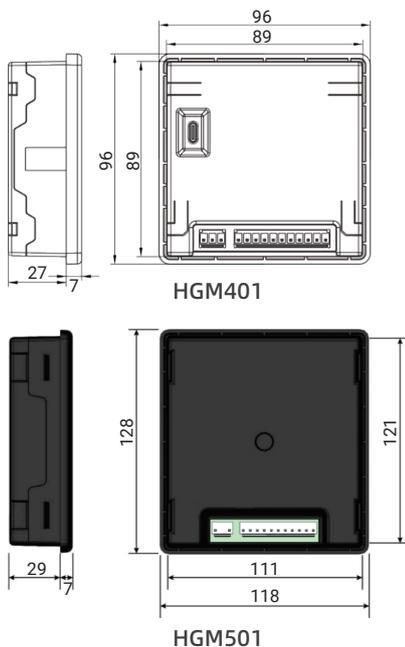
- 7-segment LED display can show the single phase voltage, line voltage, and total active power (calculated by single phase power, the load is considered as balanced load)
- Multifunction 7-segment LED display that can be switched between single phase frequency, single phase current, battery voltage, total running time, engine and generator temperature
- Under voltage, over voltage, under frequency, over frequency, over load, high temperature protection. When the protection occurs, it triggers the flashing light alarm. And the shutdown protection is followed by alarm delay
- Low oil pressure digital input, which can immediately shut down the engine in case of low oil pressure
- Parameters display can be selected using panel keys
- The HGM401 can be connected to PC software via a Type-C interface for parameter configuration
- The HGM501 and HGM401 are functionally compatible, with the HGM401 featuring a smaller size



直流供电 DC Supply	HGM401: DC9.0V~DC16V HGM501: DC9.0V~DC18V 连续供电-适用DC12V系统	HGM401: DC9.0V~DC16V HGM501: DC9.0V~DC18V Continuous power supply, suitable for DC12V system
整机功耗 Overall consumption	整机功耗<2W	Overall consumption<2W
电流互感器 次级电流 CT Secondary Current	额定: 62.5mA	CT Secondary Current Rated: 62.5mA
交流电压 AC Voltage	三相四线: 15V AC - 360 V AC (ph-N) 单相二线: 15V AC - 360 V AC (ph-N) 二相三线: 15V AC - 360 V AC (ph-N)	3P4W: 15V AC - 360 V AC (ph-N) 1P2W: 15V AC - 360 V AC (ph-N) 2P3W: 15V AC - 360 V AC (ph-N)
尺寸 Overall Dimensions	HGM401外形尺寸: 96 × 96 × 34mm HGM401开孔尺寸: 91 × 91mm  HGM501外形尺寸: 118 × 128 × 36 mm HGM501开孔尺寸: 112 × 122mm	HGM401Dimensions: 96 × 96 × 34mm HGM401Panel Cutout: 91 × 91mm  HGM501Dimensions: 118 × 128 × 36 mm HGM501Panel Cutout: 112 × 122mm
温湿度 Temperature & Humidity	工作温度: (-25~+70)°C 工作湿度: (20~90)% RH 贮存温度: (-30~+80)°C 防护等级: IP42	Working Temperature: (-25~+70)°C Working Humidity: (20~90)% RH Storage Temperatur: (-30~+80)°C IP Rating: IP42
标准和认证 Standards & Certificates	CE认证 振动: 5-8Hz: 位移±7.5mm, 8-500Hz: 加速度±2g IEC 60068-2-6 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 碰撞: 峰值加速度: 20g <sub>n</sub> 脉冲持续时间: 16ms IEC 60255-21-2	CE Certification Vibration: 5~8Hz: displacement=±7.5mm, 8~500Hz: a=±2g IEC 60068-2-6 Shock: 50g <sub>n</sub> , 11ms, half-sine, apply three shocks successively in each direction of three mutually perpendicular axes, which means 18 shocks in total Bump: 20g <sub>n</sub> pulse duration: 16ms IEC 60255-21-2

● 尺寸 Dimensions 单位(Unit): mm

● 端口 Ports



USB (HGM401)							
电压采样 Voltage Sampling	电流采样 Current Sampling	模拟量输入(2) Analog Input (2)	开关量输入(2) Digital Input (2)	电锁ON 信号输入 Electric Switch ON Signal Input	电锁启动 信号输入 Electric Switch START Input	开关量输出(2) Analog Output (2)	直流电源 DC Supply