

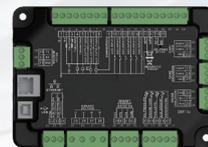
# HGM8140/HGM8140Z

## 分体式低温发电机组控制器

SPLIT-TYPE LOW TEMPERATURE GENSET CONTROLLER



HGM8140D/HGM8140ZD



HGM8140M/HGM8140ZM

### 简介

HGM8140/HGM8140Z 是一款分体式发电机组控制器，适用于单机自动化控制，由显示模块 HGM8140D/HGM8140ZD 和主控模块 HGM8140M/HGM8140ZM 组成，可扩展多个显示模块。适应 -40°C 环境下运行。HGM8140Z 为纯国产化元器件，面板及端子丝印均为中文。

### 特点

- 主控模块可通过RS232或CANBUS接口连接 显示模块，一个主控模块可连接多个显示模块
- ETHERNET通讯接口，可以实现多种监控方式
- 支持MODBUS协议
- 自定义所有显示界面
- 通过CAN BUS接口或以太网接口可实现主备循环开机
- 直流电压采样
- 战斗模式，除紧急停机和超速报警外
- 历史记录，可循环记录99条
- 高原模式，能适应平原和高原两种地形
- CAN BUS接口
- 显示界面可自定义主题

### Overview

It is a split-type genset controller, which is used for the automatic control of single genset. The controller consists of HGM8140D/HGM8140ZD display module and HGM8140M/HGM8140ZM master control module, which can be equipped with multiple display modules. It can operate normally under low temperature of -40°C. The HGM8140Z uses 100% domestically produced components, and both the panel and silk-screen terminal markings are in Chinese.

### Features

- Master control module can connect with display module via RS232 or CANBUS port, and one master control module can support multiple display modules
- ETHERNET communication port can achieve multiple monitoring modes
- Support MODBUS protocol
- All display interfaces can be self-defined
- Master/slave cycle run mode can be realized via CANBUS or ETHERNET port
- DC voltage sampling
- Battle mode, which means all shutdown alarms are inhibited except emergency stop and overspeed alarm
- Event log function, which can record up to 99 logs continuously
- Plateau mode allows it to support environment of plain and plateau
- CANBUS port
- Custom theme can be set on display interface

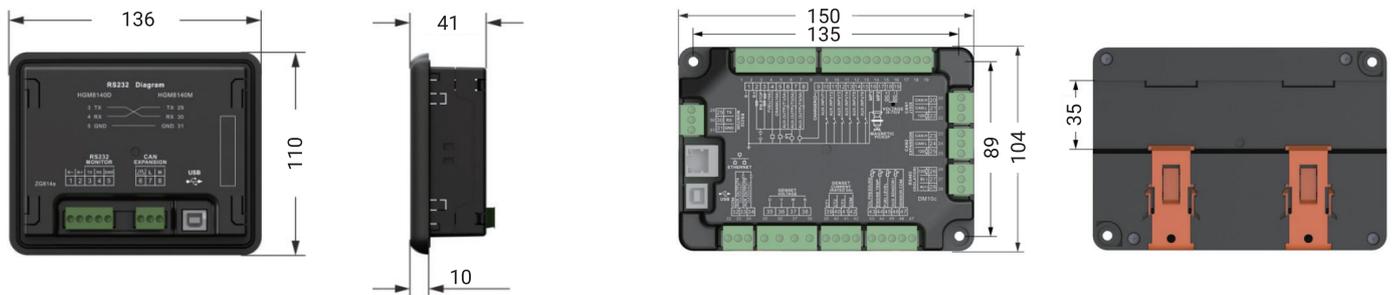


## ● 技术参数 Technical Parameters

|                                 |  |   |
|---------------------------------|--|---|
| 直流供电<br>DC Power                | DC(8~35)V连续供电<br>功耗: <3W(待机: ≤2W)  | DC(8~35)V continuous power supply<br>Power Consumption: <3W(Standby mode: ≤2W)  |
| 交流发电机频率<br>Alternator Frequency | 50Hz/60Hz  | 50Hz/60Hz   |
| 电压和电流<br>Voltage & Current      | 三相四线: AC(15~360)V (ph-N)<br>三相三线: AC(30~620)V (ph-ph)<br>单相二线: AC(15~360)V (ph-N)<br>二相三线: AC(15~360)V (ph-N)<br>额定: 5A                                    | 3P4W: AC(15~360)V (ph-N)<br>3P3W: AC(30~620)V (ph-ph)<br>1P2W: AC(15~360)V (ph-N)<br>2P3W: AC(15~360)V (ph-N)<br>Rated: 5A  |
| 防护等级<br>IP Rating               | IP65: 当控制器和控制屏之间加装防水橡胶圈时   | IP65: when waterproof rubber gasket is installed between controller screen and enclosure  |
| 绝缘强度<br>Dielectric Strength     | 在交流高压端子与低压端子之间施加AC2.2kV电压, 1min内漏电流不大于3mA  | Apply voltage of 2.2kVAC between AC high voltage terminal and low voltage terminal, and the leakage current is not more than 3mA in 1 minute  |
| 尺寸<br>Dimensions                | 外形尺寸:<br>HGM8140D/HGM8140ZD: 136 × 110 × 41mm(面板安装)<br>HGM8140M/HGM8140ZM: 150 × 104 × 41mm(柜内安装)<br>开孔尺寸:<br>HGM8140D: 122 × 94mm<br>HGM8140ZD:122 × 94mm | Overall Dimensions:<br>HGM8140D/HGM8140ZD: 136 × 110 × 41mm (panel mounted)<br>HGM8140M/HGM8140ZM: 150 × 104 × 41mm (mounted inside cabinet)<br>Panel Cutout:<br>HGM8140D: 122 × 94mm<br>HGM8140ZD:122 × 94mm |
| 环境<br>Environment               | 工作温度: (-40~+70)°C<br>工作湿度: 相对湿度(20~93)%RH<br>贮存温度: (-40~+80)°C   | Working Temperature: (-40~+70)°C<br>Working Humidity: (20~93)%RH<br>Storage Temperature: (-40~+80)°C  |

## ● 尺寸 Dimensions

单位(Unit): mm



## ● 端口 Ports

|                    |           |             |                                |                                |                               |                              |                             |
|--------------------|-----------|-------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|-----------------------------|
| HGM8140D/HGM8140ZD |           |             | 直流工作电源和急停<br>DC Power & E-Stop | 开关量输出(7)<br>Digital Output (7) | 开关量输入(6)<br>Digital Input (6) | 转速<br>Speed                  | 直流电压采样<br>DC Voltage Sample |
|                    |           |             | RS232                          | HGM8140M/HGM8140ZM             |                               |                              | CAN BUS (2)                 |
|                    |           |             | ETHERNET                       |                                |                               |                              | RS485                       |
|                    |           |             | USB                            |                                |                               |                              |                             |
| 直流工作电源<br>DC Power | RS232 (1) | CAN BUS (1) | 发电电压采样<br>Gen. Voltage Sample  |                                | 电流采样<br>Current Sample        | 模拟量输入(4)<br>Analog Input (4) |                             |