HGM8510

高端发电机组并联控制器

TOP_END GENSET PARALLEL CONTROLLER

简介

由显示模块 HGM8510D 和主控模块 HGM8510M 组成， 主控模块自带交换机功能，多机通讯采用网络总线通信连接，标配环网冗余功能； 适用于如电站、智算中心等高级、复杂的应用场景。

Overview

Consist of HGM8510D display module and HGM8510M master control module. The master control module integrates the functions of switch and ring network redundancy, and the communication between multiple gensets is connected via network bus. It is applicable to advanced and complex applications such as power stations and AIDC(AI Data Centers).

特点

- 支持32台发电机组并联
- 设备级环网冗余
- 适配多种电喷发动机ECU通讯
- 历史记录999条，实时时钟，定时开关机
- 3个维护设置
- 自定义协议内容
- 重载问询、非重要负载脱扣、虚假负载
- 调度开关机、剩余功率开关机
- 支持Tier 4 Final / Stage V发动机
- 黑匣子记录，可记录5个报警时的机组数据
- PLC编程
- 静态并联、黑起动、恒功率输出、均衡运行时间、经济油耗等模式
- 自定义总线数据，可从一台控制器读到其它机组控制器的数据
- 谐波分析及发电电压电流波形显示
- 主控模块具有U盘记录，用PC软件打开U盘记录可以进行数据分析

Features

- Support the parallel of up to 32 gensets
- Device-level ring network redundancy
- Suitable for the ECU communication of various J1939 engines
- Functions of event log (999 records), real-time clock and scheduled start/stop
- Three maintenance settings
- Custom protocol content
- Heavy load request, NEL trip and dummy load
- Scheduled start/stop, remaining power start/stop
- Support Tier 4 Final/Stage V engines
- Black box function allows to record the genset data of 5 alarms
- PLC programming
- Various operation modes: static parallel, black start, constant power output, balanced running time, and fuel economy
- Custom bus data, which allows one controller to read all data of other controllers
- Harmonic analysis and generation voltage and current waveform display
- Master control module supports USB flash drive recording, and data analysis can be done by opening the record via PC software

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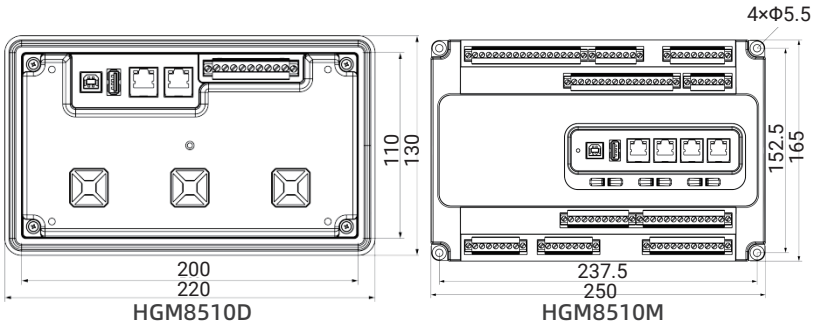
技术参数 Technical Parameters

直流供电 DC Power Supply	DC8-35V HGM8510D:<4W(待机：≤2.5W) HGM8510M:<11W(待机：≤7.0W)	DC8-35V HGM8510D:<4W(Standby mode：≤2.5W) HGM8510M:<11W(Standby mode：≤7.0W)
交流电压 AC Voltage	相电压范围：AC15-AC520V(ph-N) 相电压分辨率：0.1V 相电压精度：0.5% 线电压范围：AC30-AC900V(ph-ph) 线电压分辨率：0.1V 线电压精度：0.5%	Phase Voltage Range: AC15-AC520V(ph-N) Phase Voltage Resolution: 0.1V Phase Voltage Accuracy: 0.5% Line Voltage Range: 30-900VAC (ph-ph) Line Voltage Resolution: 0.1V Line Voltage Accuracy: 0.5%
交流电流 AC Current	额定：5A 范围：0 - 10A 分辨率：0.1A 精度：0.5%	Rated: 5A Range: 0-10A Resolution: 0.1A Accuracy: 0.5%
标准和认证 Standards & Certificates	CE认证 振动：5 - 8Hz: ±17mm, 8 - 100Hz: 4g, 100 - 500Hz: 2g IEC 60068-2-6 碰撞：20g_n，16ms，半正弦 IEC 60255-21-2 冲击：50g_n，11 ms，半正弦 IEC 60068-2-27	CE Certification Vibration: 5-8Hz: ±17mm, 8-100Hz: 4g, 100-500Hz: 2g (IEC 60068-2-6) Bump: 20g_n, 16ms, half-sine (IEC 60255-21-2) Shock: 50g_n, 11ms, half-sine (IEC 60068-2-27)
开孔尺寸 Panel Cutout	HGM8510D：202 × 112mm，嵌入式面板安装 HGM8510M：孔径φ5.5 × 4， 孔距：237.5 × 152.5mm， 螺钉固定安装	HGM8510D: 202 × 112mm, embedded installation HGM8510M: diameter ϕ5.5 × 4, hole spacing 237.5 × 152.5mm, screw fixed installation
环境 Environment	工作温度：(-25~+70)°C 相对湿度：(20~93)% 贮存温度：(-30~+80)°C 防护等级：HGM8510D显示模块：前壳 IP65 后壳 IP20 HGM8510M主控模块：IP20	Working Temperature: (-25~+70)°C Working Humidity: (20~93)%RH Storage Temperature: (-30~+80)°C IP Rating：HGM8510D: front enclosure/IP65 back enclosure/IP20 HGM8510M: IP20

尺寸 Dimensions

单位(Unit)：mm



端口 Ports

电源和急停 Power & E-Stop	开关量输出(20) Digital Output (20)	D+	CAN (ECU)	RS 485	转速 Speed	模拟量输出(4) Analog Output (4) (GOV*1/AVR*1/AO(±20mA)*2)
可扩展模块 Expansion Modules	DIN16 DOUT16 AIN8 AIN24					ETHERNET (4) USB Device USB Host
开关量输入(20) Digital Input (20)	模拟量输入(6) Analog Input (6) AI1/AI2/AI5/AI6 (R) AI3/AI4 (I/R/U)	+5V输出 Output	发电侧电压采样 Gen. Volt Sample	母排/市电侧电压采样 Busbar/Mains Volt. Sample	发电&接地电流采样 Gen. & Ground Current Sample	