

发动机检测分析仪控制软件设计

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摘要: 利用LabVIEW设计了发动机检测分析仪系统软件, 包括传感器检测模块、点火系统检测模块、信号多通道记录仪模块和发动机示波器模块, 实现了传统硬件设备的功能——对发动机信号分析、处理、显示、储存和读取。提高了系统可靠性和抗干扰能力, 保证了各检测参数的精度和稳定性, 并可以根据需要对软件功能进行调整, 具有二次开发能力。 On the software platform of LabVIEW, control software of engine test analyzer was designed. The control software includes sensors test module, ignition system test module, multi-channel recorder module of electronic signal and engine oscillograph module. The analysis, processing, real-time display, storage and read function of engine signals were accomplished by engine test analyzer software program like the traditional hardware equipment. The reliability and anti-interference ability were increased greatly, the accuracy of every parameter and the stability of the test were realized, and the software function could be adjusted according to the demand. Furthermore, the software of test analyzer has a function of secondary development.

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