

## 便携式智能拉力仪设计

### Design of Handy Intelligent Pulling Force Instrument

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作者	单位
曹成茂	安徽农业大学
朱代忠	安徽农业大学
朱张青	安徽农业大学

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中文摘要:

便携式智能拉力仪是为测量农业机械牵引力而设计的。该设计选用了新型器件, 可靠性高; 采用了较先进的软件技术实现自动校正零点误差和数字滤波, 精度高; 电路使用共基准电压, 消除了因电压变化而引起的误差; 由于广泛选用CMOS芯片, 功耗低、热稳定性好。设计的产品经用户一年的使用。各项指标达到或超过了行业标准。

英文摘要:

The handy intelligent pulling force instrument was designed for measuring pulling forces of agricultural machinery. By using modern element and advanced software technology, automatic error correction of zero point and data filtering, and high measuring accuracy were realized on the instrument. Because the circuit applied common voltage, the error resulted from the increasing and decreasing of the voltage was eliminated. Less power and little temperature effect were made due to wide use of CMOS IC. The instrument has passed the test and achieved or exceeded the standard of the same trade. Good results were achieved through consumer's application for one year.

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主办单位: 中国农业工程学会 单位地址: 北京朝阳区麦子店街41号

服务热线: 010-65929451 传真: 010-65929451 邮编: 100026 Email: tcsae@tcsae.org

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