

## TC-301型水位传感器及其在农业水利中的应用研究

### Application of TC-30 Digital Water-level Monitoring Transmitter in Agricultural Water Conservancy Project

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英文关键词: agricultural water conservancy; computer; digital water level transmitter

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中文摘要:

我国农业水利工程中普遍采用的压力式、浮子及电容式水位传感器在泥沙大、水流急、信号远传的工程中应用时,存在一定的缺陷。结合现代计算机技术,开发精度高、适应性强的水位量测设备已经成为农业水利工程发展的必然。文中介绍的TC-301型水位传感器运用仿生理论的思想,在农业水利工程水位的量测中取得了新的突破,应用效果良好

英文摘要:

The pressure type stage sensor, float type stage sensor and capacitance type stage sensor are widely used in agricultural water conservancy project in China. However, there exists some drawback when they are equipped in the project with hyper concentration of sediment and swift flow, in which collecting message requires remote telemetry. It is an inevitable tendency to use modern computer technologies to explore the higher accuracy and highly adaptable devices of water level measurement in the agricultural water conservancy project. TC-301 new type stage sensor is presented in this paper, it practices new thought of simulative nerve theory, which succeeds in achieving new breakthrough in measuring water level of agricultural water conservancy project, and the application effect is good.

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