



炮口冲击波超压无线存储测试系统设计

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摘 要：

为了评估炮口冲击波对相关操作人员及设备造成的损伤和破坏程度，将存储测试技术应用到炮口冲击波测试中，并结合一定距离外进行有效监控。通过对测试系统进行的激波管动态校准，符合国军标对炮口冲击波超压测试的基本要求。进行了测试试验，均成功获取到炮口冲击波超压曲线。试验结果表明所设计的炮口冲击波无线存储测试系统能有效工作，前景。

关键词：存储测试；炮口冲击波；无线传输；激波管；多次重触发

Design of Muzzle Blast Wave Overpressure Measuring System Based on Wireless and M

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Abstract:

In order to evaluate the damage of relevant operators and equipments caused by muzzle blast wave, The muzzle blast wave test system combined with Wireless transmission technology, which made the main test console monitoring effectively in a certain distance. Through the dynamic calibration of the shock tube of the test system, it meets the basic requirements of military specifications on the muzzle blast wave overpressure test. The storage test system obtained the curves of the muzzle blast wave overpressure successfully. The results show that the storage test system can work effectively, has the advantage of easy operation and has a good application prospect.

Keywords: storage test; muzzle blast wave; wireless transmission; shock tube;multiple re-trigger

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