

BLAST WAVE MEASUREMENT TECHNIQUES: ELECTRONIC METHODS

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Electronic methods of blast measurements came into being to obtain accurate time dependent parameters of the blast wave. These methods required three basic elements: a sensor to sense the pressure, a data transmission link such as a cable to transmit the gage signal, and a recorder to record the transmitted signal. In many cases, the system would be located in the severe environment created by the explosion. As interest in the pressure level grew from 15 psi to 50 psi to 150 psi to 1000 psi and greater, the environment became increasingly more severe and required more of the sensor especially, Protection of the systems was necessary to achieve satisfactory recording of blast data The means used to protect the systems from the environment will be described in the paper with a discussion of the particular systems.