



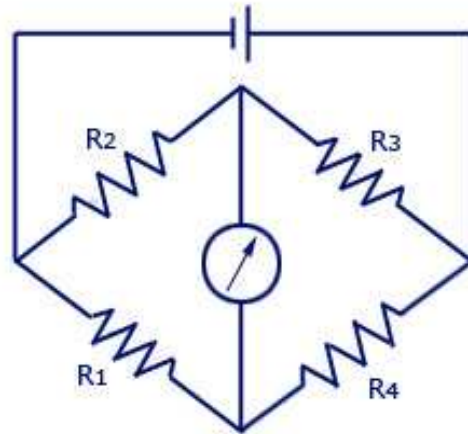
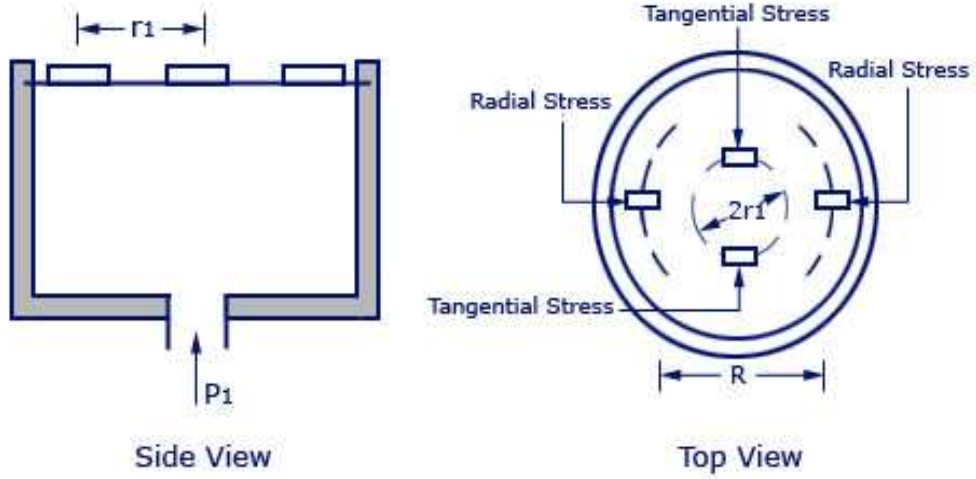
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Farklı Teknolojideki Sensorler İle Basınç Ölçümü;

1. Statik Basınç Sensor Teknolojisi;

Statik basınç sensorleri strain gage tabanlı teknolojiye sahiptir. Basıncın metal veya mebran yüzeydeki oluşturduğu uzama veya kısalmaya bağlı değer oluşturur.

Pressure Measurement With Strain Gauges on Diaphragm



Bridge Circuit

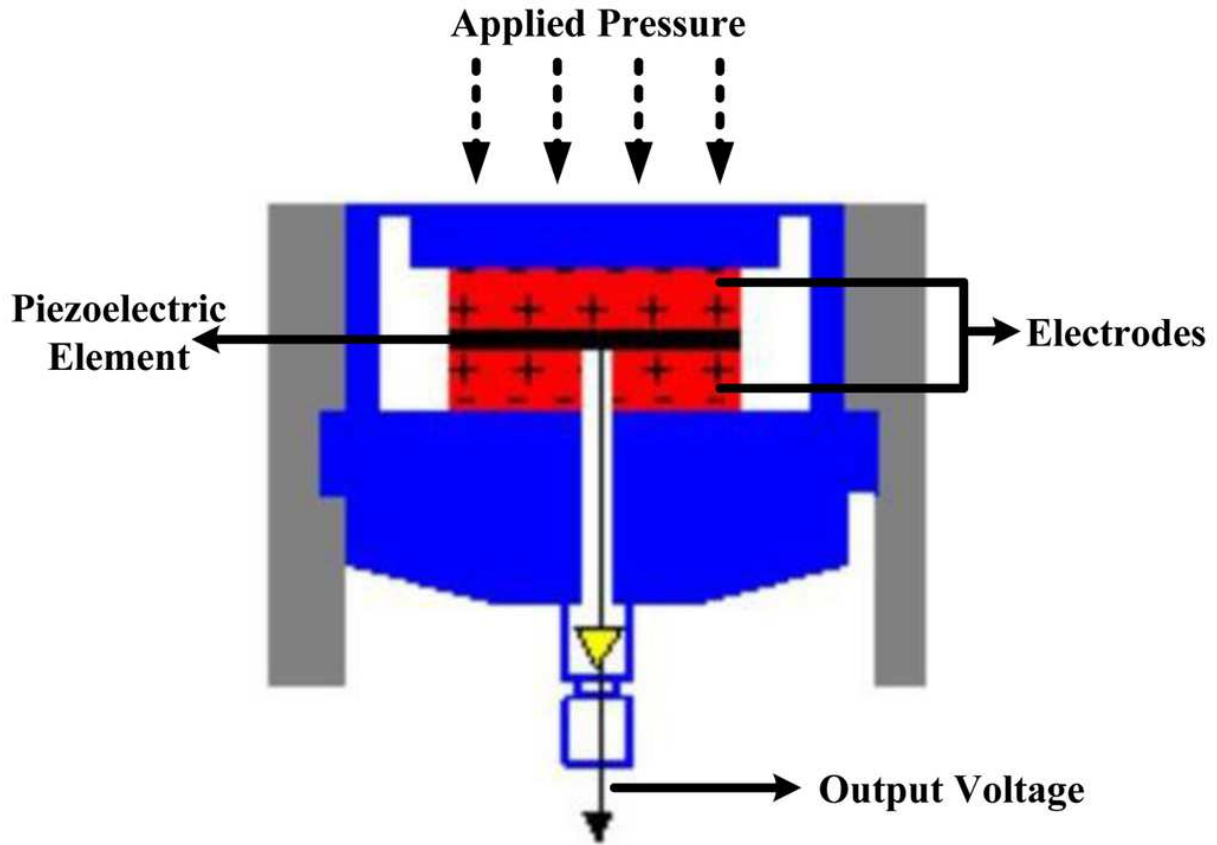
www.InstrumentationToday.com



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2. Dinamik Basınç Sensor Teknolojisi;

Dinamik basınç sensorleri; gelen basınç deęişimine karşı piezo veya quarts kristaller üzerinde şekil deęişimi oluşturur. Kristal üzerinde oluşan şekil deęişime karşı oluşan voltaj ölçülür.

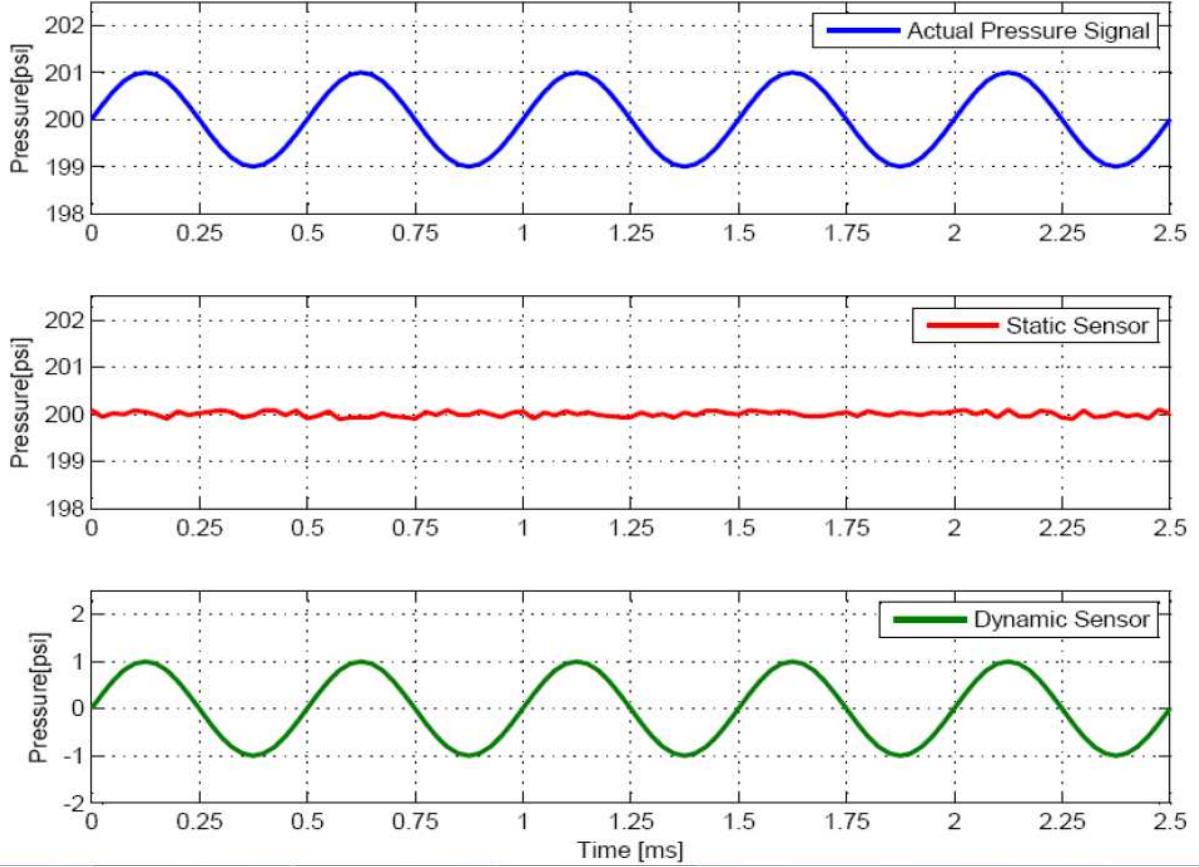




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3. Statik & Dinamik Basınç Sensor Ölçüm Farkları;

Statik sensorler oluşan statik değeri okurlar. Dinamik sensorler basınç değişimini okurlar.

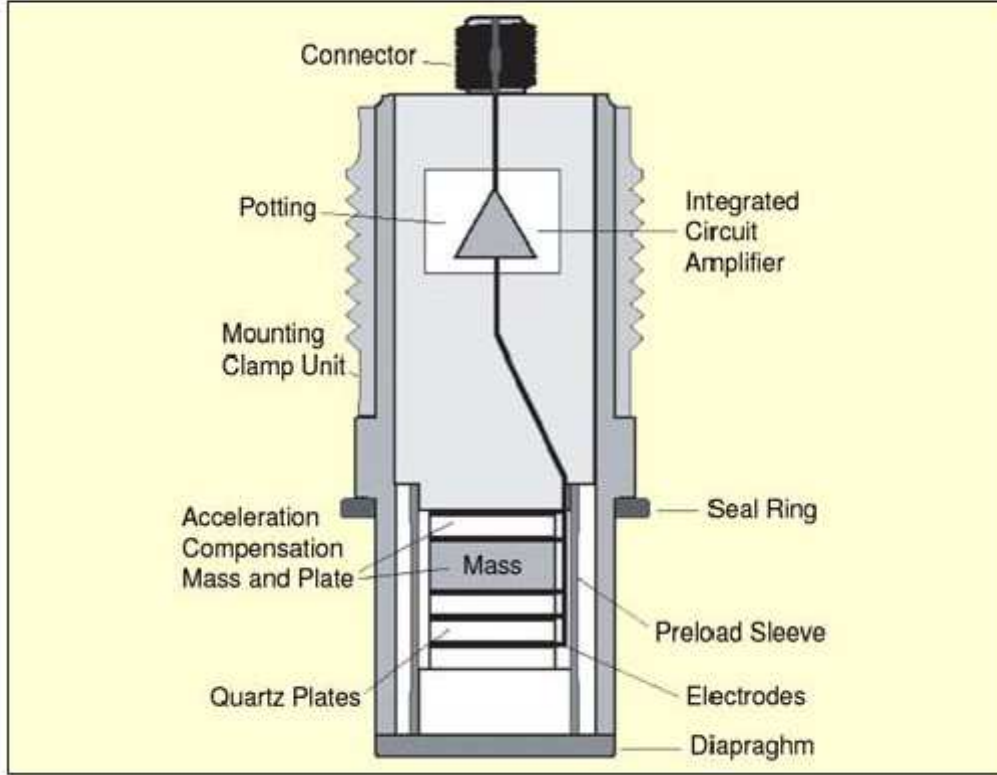




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4. Açık Patlama Testi Dinamik Basınç ve Blast Ölçümü;

Figure 4: PCB blast pressure transducers.



Sensor PCB Dinamik Basınç Sensörü;

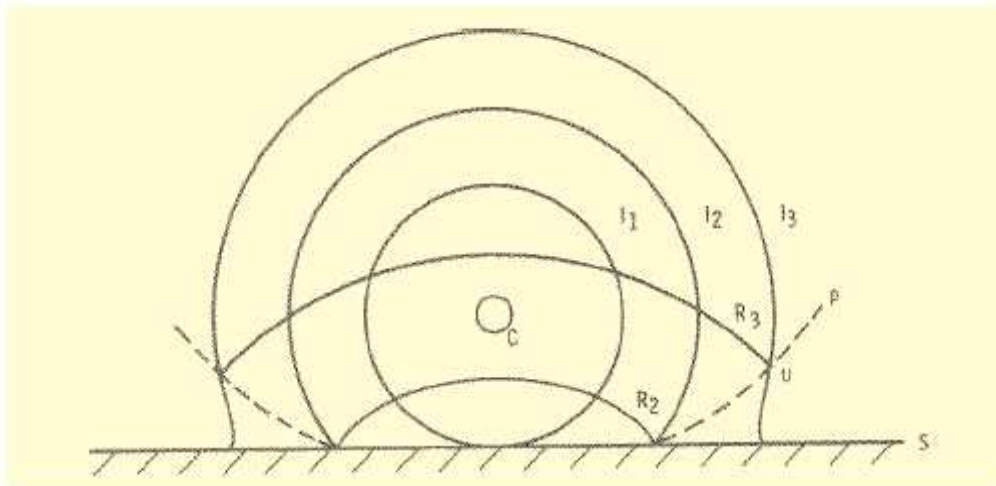


Figure 3. Strong shock wave interaction with a reflective surface.



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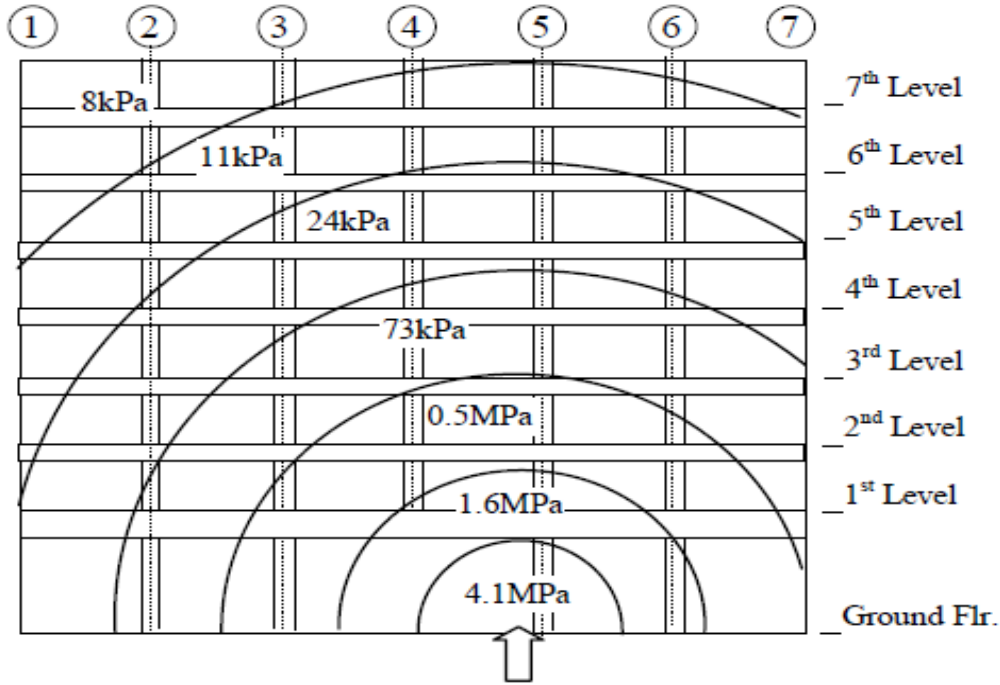


Fig. 25 Distribution of blast pressure on building façade (Mendis & Ngo, 2002)

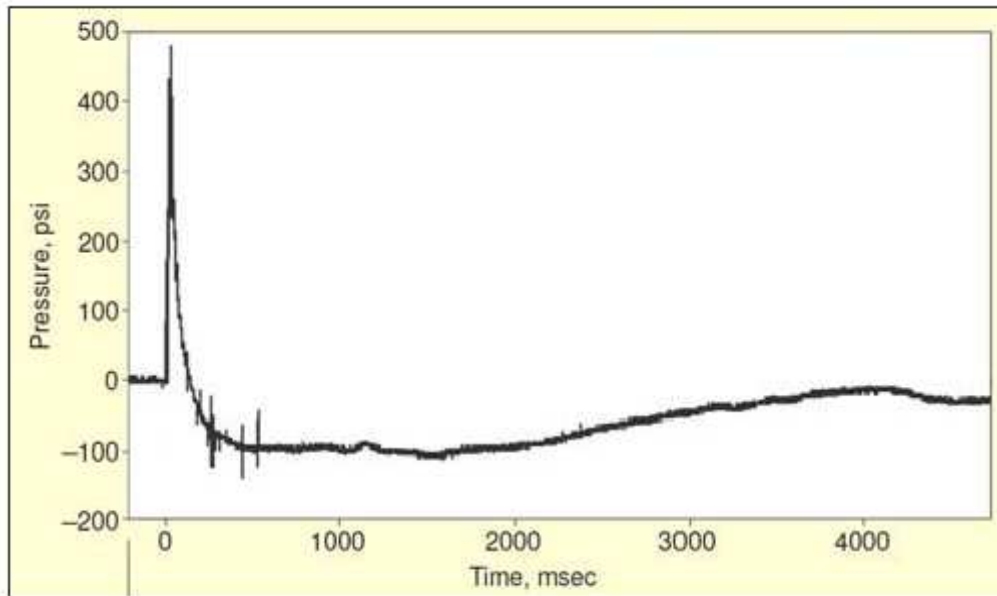


Figure 14. Erroneous blast pressure data (notice the -100 psig reading!).



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5. Kapalı Patlama Testi Dinamik Basınç Ölçümü;

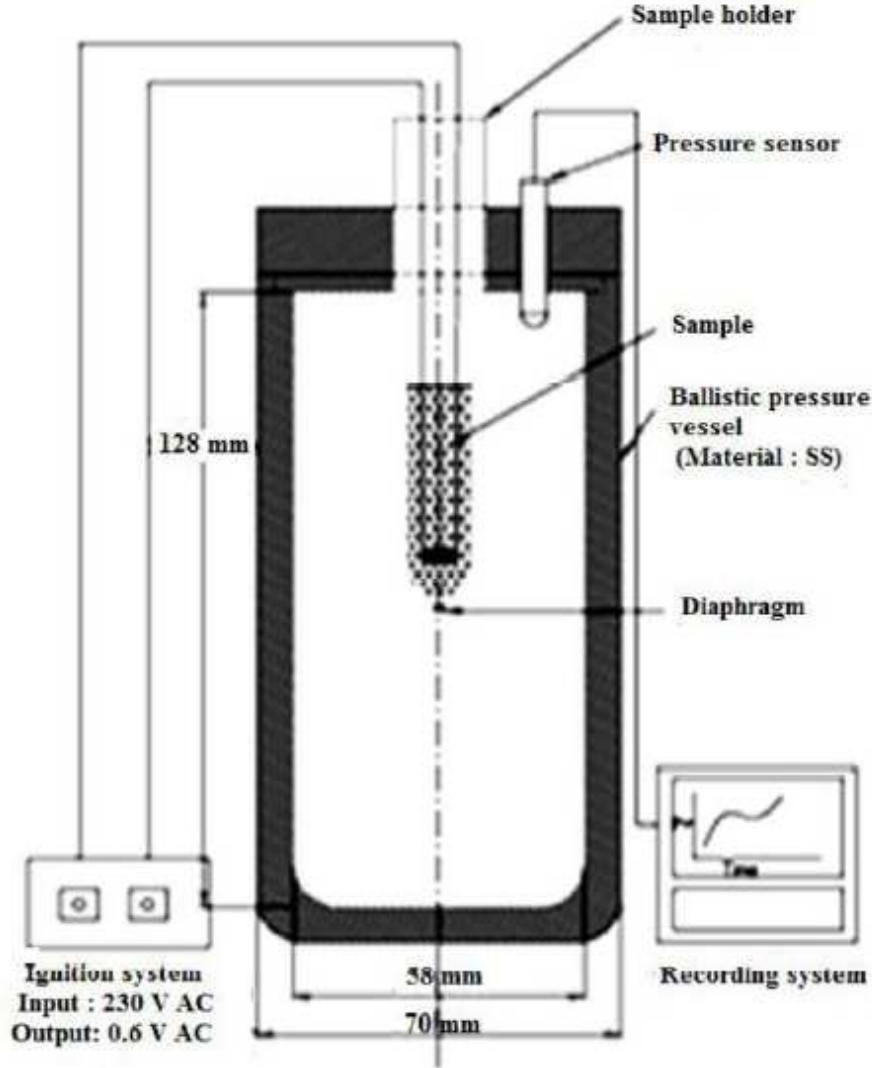


Figure 6.2 Line diagram of the experimental setup of ballistic pressure vessel



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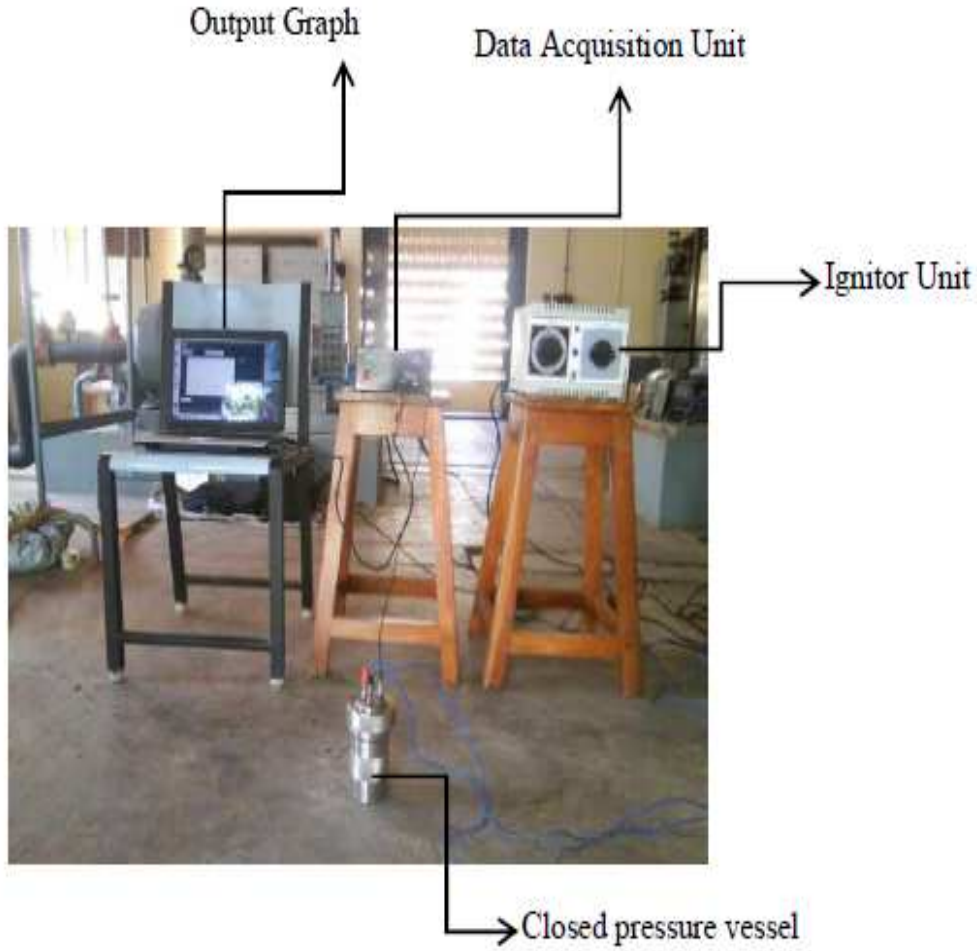


Figure 6.4 Photograph of the experimental setup to measure the explosion pressure



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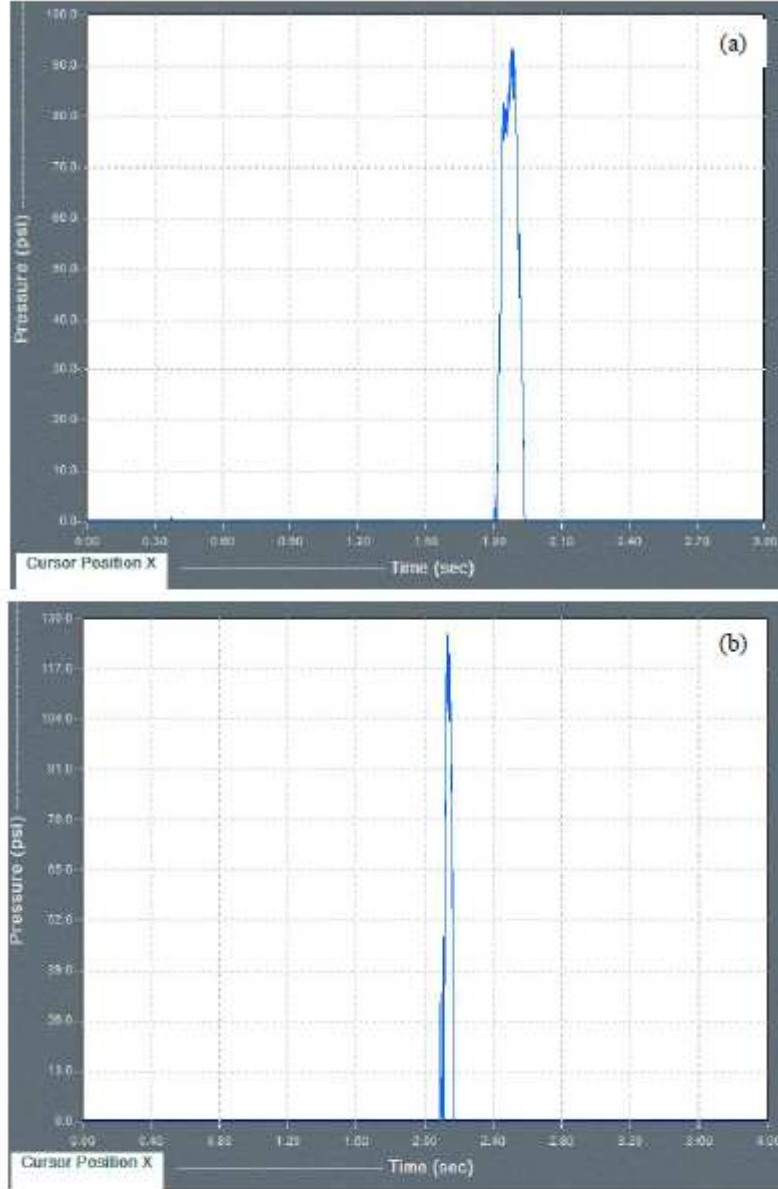


Figure 6.5 Pressure - time graph for the sample (a) S 74 (b) S30