



**Uttam  
Blastech**  
PRIVATE LIMITED

The Mining & Excavation Experts.

## DIGITAL DELAY TIMER



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## Salient features:

- ⊙ Dual function Timer
  - ⊙ Measure the Velocity of Detonation (VOD) of an explosive cartridge or Detonating Fuse
  - ⊙ Measure Delay Time of Cord Relays & Delay interval between two delay detonators
- ⊙ Displays VOD in meters / sec and delay time in milliseconds
- ⊙ Easy readable graphic display
- ⊙ Has tactile keyboard for data input in the field
- ⊙ User selectable probe distance
- ⊙ Handy portable unit, weighs 500 grams, without charger and cables.
- ⊙ Comes in an easy to carry sling bag.
- ⊙ Protection against Dust and water splash (IP65 protection)
- ⊙ Real time clock for recording date & time of testing.
- ⊙ Add user data like Batch number, date, operator details etc. for each test in the field.
- ⊙ Stores data of up to 15,000 events for transferring to computers
- ⊙ Transfer data on to a PC with RS 232 cable.
- ⊙ Prints data on a serial printer
- ⊙ Reminds the operator when Calibration is due.
- ⊙ Uses probes made from simple twisted single core wire (e.g. Detonator lead wire)
- ⊙ Rechargeable Lithium Ion Battery
- ⊙ Remote Transfer of Results (under Development)

## Mode of operation :

- ⊙ Uses normally open wire probes

## VOD Measurement:

- ⊙ Measuring the travel time of the detonation wave between two probes
- ⊙ Computation of VOD using the travel time and the distance between the probes
- ⊙ Time Measurement Range: 10  $\mu$ Sec to 350  $\mu$ Sec
  - Resolution: 10 nSec
  - Tolerance:  $\pm 0.01\%$

## Delay time Measurement:

- ⊙ Measures the time interval between two detonations
- ⊙ Time measurement Range: 0 to 1 Sec
  - Resolution: 10  $\mu$ Sec
  - Tolerance:  $\pm 0.01\%$