

VOD 815

VELOCITY OF DETONATION TESTER

The VOD 815™ is a hand-held instrument created for the measurement of the detonation velocity of energetic materials using fiber optic probes.

The VOD 815 is equipped with 8 passive optical channels, which can handle up to eight probes to measure velocity at seven intervals. The measurement preparation time is less than 10 minutes and the result can be viewed immediately. The use of fiber optic probes principally provides full resistance against stray currents and electromagnetic disturbances, which allows the instrument to be safely used together with other instruments.



APPLICATIONS

The VOD 815 is primarily designed for quality control in explosives manufacturing and mining industries, military explosives surveillance and education in the field of energetic materials. In these cases, its simplicity of operation and results evaluation are highly appreciated.

Typical examples of tested samples are:

- ▶ Unconfined pressed, plastic bonded or cartridged explosives
- ▶ Liquid or gaseous explosives confined in plastic or metallic tubes
- ▶ Gaseous explosive mixtures
- ▶ Industrial bulk or cartridged explosives in boreholes
- ▶ Shaped charge (jet velocity)

ADVANTAGES & FEATURES

- ▶ 8 passive fiber optic probes
- ▶ Simple operation and data acquisition
- ▶ Immune to stray currents and EM disturbances
- ▶ Battery powered
- ▶ Shockproof protective case

VOD 815, OPTIMES 8 and OPTIMEX 64 – Comparison of parameters

	VOD 815	OPTIMEX 8	OPTIMEX 64
Recording light intensities in time	-	●	●
Battery-powered	●	●	-
Customizable (8-64 channels)	-	-	●
External electrical Trig-in/out	-	○	●
Local network connection	-	○	●
Plastic optical fiber probes (POF)	●	●	●
Glass optical fiber probes (GOF)	-	●	●
Perforated fiber probes (PFP)	-	●	●

● Applicable ○ Optional - Not supported

COMPLIANCE

- EN 13630-11 Explosives for Civil Uses – Detonating cords and safety fuses - Part 11: Determination of velocity of detonation of detonating cords
- EN 13631-14 Explosives for Civil Uses – High explosives, Part 14: Determination of Velocity of Detonation



VOD measurement in borehole



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