

High precision V.O.D. Meter for extreme conditions

- Easy to use
- Heavy duty plastic case
- Metal dashboard
- Quartz: High precision , temperature corrected, no calibration needed
- $\pm 0.01 \mu\text{s}$ precision
- Touchscreen 7.0 inch
- 8 fibers input / 7 counters
- All data acquired by the instrument can be restored for data traceability
- Very high autonomy
- Charger integrated (100V-240V / 50Hz-60Hz AC)
- 6 languages selectable in the configuration menu (English, Spanish, Portuguese, German, Italian, French)
- Low price for sensors



The Explomet³ is designed for V.O.D. measurements of explosives, detonators, detonating cords, fuels, oxidizers, etc. in the laboratory, in the field and in the [blast hole](#).

It is integrated in a shockproof and weatherproof case, temperature corrected, almost waterproof (except for the passage of fibers). During measurements, the lid can be closed, thus avoiding any risk of deterioration or introduction of dust into the instrument.

Easily transportable, weighing only 4.5kg, it has a very long autonomy and can be recharged thanks to its integrated universal charger in all countries of the world.

The measured data is stored on an external SD card for easy transfer to any computer.

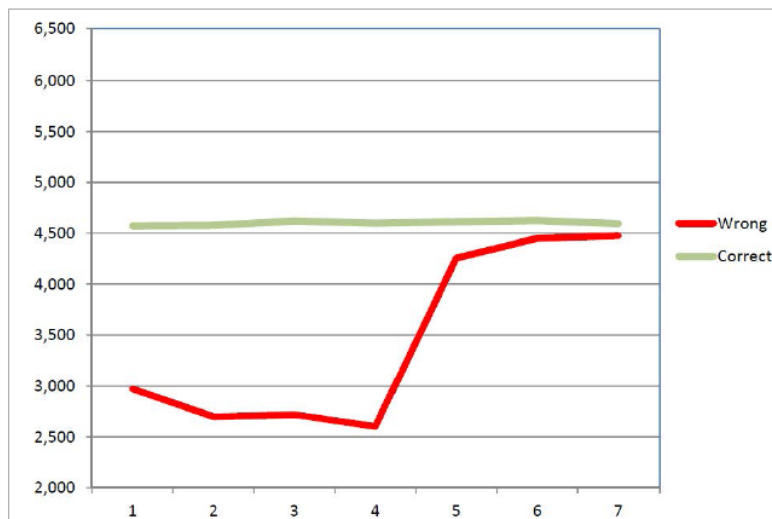
The quality control of our laboratory as well as all the measurements carried out afterwards are kept internally and can be recovered at any time and copied on the external SD card in order to guarantee the traceability of your tests.

The configuration menu allows you to adjust the date and time, retrieve data and choose between 6 languages (English, Spanish, Portuguese, German, Italian and French).

V.O.D. measurements in blast holes

The green curve corresponds to the expected result, while the red curve shows us a malfunction of the explosion during the first 4 measurements. This resulted in a bad fragmentation, thus additional costs.

Fibers	Timer #	L(mm) Spacing	Time(μs)	Speed(m/s)
			Theory 111.11	Theory 4500
1-->2	1	500	109.37	4572
2-->3	2	500	109.25	4577
3-->4	3	500	108.23	4620
4-->5	4	500	108.74	4598
5-->6	5	500	108.39	4613
6-->7	6	500	108.12	4624
7-->8	7	500	108.84	4594
1-->2	1	500	168.35	2970
2-->3	2	500	185.26	2699
3-->4	3	500	183.89	2719
4-->5	4	500	192.12	2603
5-->6	5	500	117.43	4258
6-->7	6	500	112.32	4452
7-->8	7	500	111.71	4476



Contact

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Specifications

Measuring range:	Spacing between 2 optical fibers: 1 to 9999 mm
Accuracy:	+/- 10 nano seconds
Timer:	7 synchronous timers (32-bit resolution)
Operating temperature:	-30 à +80°C
Data storage:	SD card with a maximum capacity of 32 Gbytes (e.g. 10,000 data acquired in speed and time measurement = about 2.5 kbyte)
Connections for optical fibers::	HFBR-4501Z or HFBR-4511Z from Broadcom/Avago or compatible
Autonomy:	Minimum operating time of 12 hours, provided by 2 sealed AGM 6V/5Ah batteries
Power supply:	Built-in charger / Input: 100-240V / AC 50/60Hz Charging time for full batteries: 10 hours
Dimensions:	Width: 27 cm / Length: 25 cm / Height 18 cm
Weight:	4.5 Kg