

HPA 1500

HIGH PRESSURE AUTOCLAVE

The HPA 1500™ High Pressure Autoclave is a standardized instrument designed to measure a specific energy of energetic chemical substances for their hazard classification according to the UN Recommendations on the Transport of Dangerous Goods.

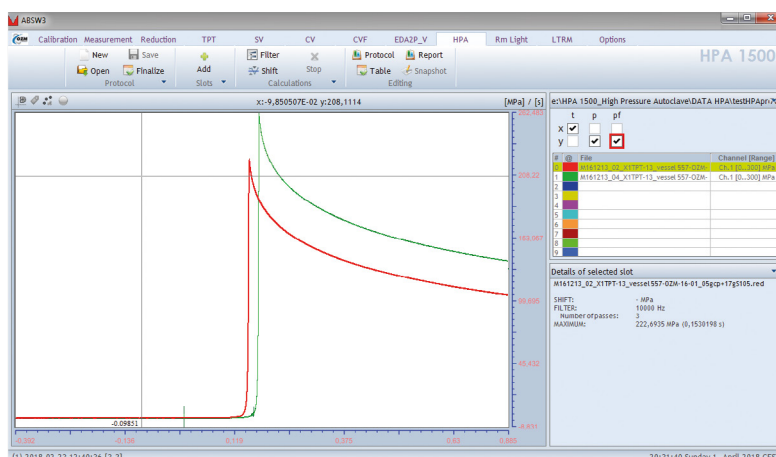


APPLICATIONS

Compact laboratory instrument containing testing vessel, pressure transducer, a control unit with in-built precise pulse power ignition source, transducer conditioner, data acquisition unit and all-inclusive software.

Determination of specific energy (amount of energy released by the tested substance) is an important parameter for hazard assessment of energetic chemicals for their safe production, handling and transportation in chemical industry.

Obtained results (max. pressure, pressure rise time, burning rate, etc.) usually serve for the safety classification of energetic materials.



HPA software screenshot

ADVANTAGES & FEATURES

- ▶ Ignition source with voltage and current feedback generates a precise constant power impulse
- ▶ Standardized 96 cm³ volume stainless steel testing vessel with working pressure up to 2,000 bar
- ▶ Two different control units designed for using different pressure transducers
- ▶ Test results: pressure vs. time profile, maximum pressure and specific energy
- ▶ Simple operation, control, measurement, calibration and data evaluation by TPT-SW software

There are two versions of the control unit available:

Version	TPT-MCU	EDAL
Strain-gauge pressure transducer	YES	YES
Dynamic piezoelectric transducer	NO	YES
Number of optional inputs	1	4

COMPLIANCE

- UN Recommendation on the Transport of Dangerous Goods, Manual of Tests and Criteria [Test F.5 High Pressure Autoclave]



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