

PYROMEX

MULTI-PARAMETER MEASUREMENT SYSTEM

NEW INSTRUMENT

The **PYROMEX** is an advanced instrument for multi-parameter measurements of energetic materials. It is an extension of the **OPTIMEX-64** with the possibility of connecting various measurement modules for recording optical or electrical signals at different sampling rates. The pyrometer module enables measurements of the brightness temperature of dynamic high temperature phenomena in detonation waves. All the modules share a common time base and trigger options. Thanks to this, complex experiments leading to the complete characterization of energetic materials using a single instrument are possible. More modules and evaluation routines are coming in the near future!



APPLICATIONS

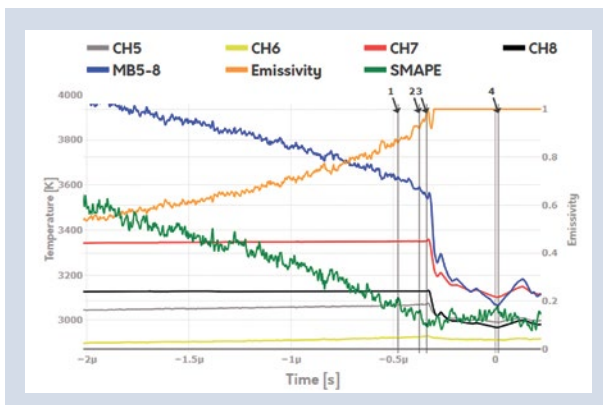
The **PYROMEX** may be configured in the same way as **OPTIMEX**. The customer may select the required card types in eight available slots. The instrument can handle various measurements of energetic materials in advanced research, industrial, military, educational or engineering applications. The instrument records full light intensity or voltage profiles in time.

Currently available **PYROMEX** modules include:

- ▶ Temperature measurement module
- ▶ Voltage measurement module
- ▶ Optical measurement module

Under development:

- ▶ Measurement modules with extended record times
- ▶ Vibration and deformation measurements
- ▶ Air blast overpressure measurement using ICP sensors
- ▶ Underwater blast measurements



Brightness temperature record of the incident detonation wave in nitromethane

ADVANTAGES & FEATURES

- ▶ Up to 64 recording channels in total according to the customer's requirements
- ▶ Inbuilt pyrometer setup with user exchangeable filters
- ▶ Sampling rate of up to 250 MS/s per channel
- ▶ Touch screen LCD display and network connectivity
- ▶ Automated data evaluation routines



A multi-parameter measurement using PYROMEX



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