

# FRTA I

## INSTRUMENT FOR DETERMINATION OF CONCENTRATION LIMITS OF FLAMMABILITY

The FRTA I™ (Instrument for Concentration Limits of Flammability Determination) is designed to determine both the Lower Flammability Limit (LFL) and the Upper Flammability Limit (UFL) of various flammable gases or volatile liquids. The FRTA I applies high voltage electrical ignition and visual observations of flame propagation.

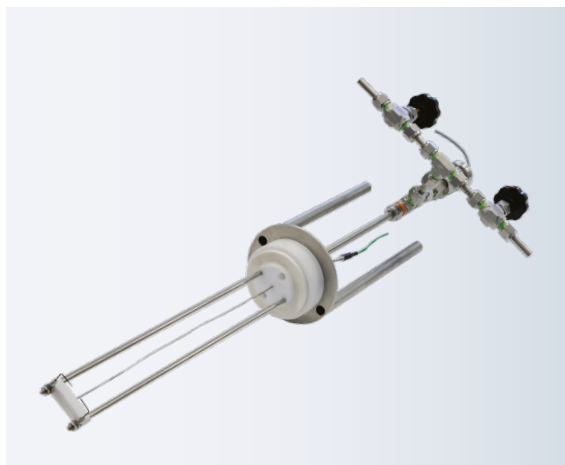


### APPLICATIONS

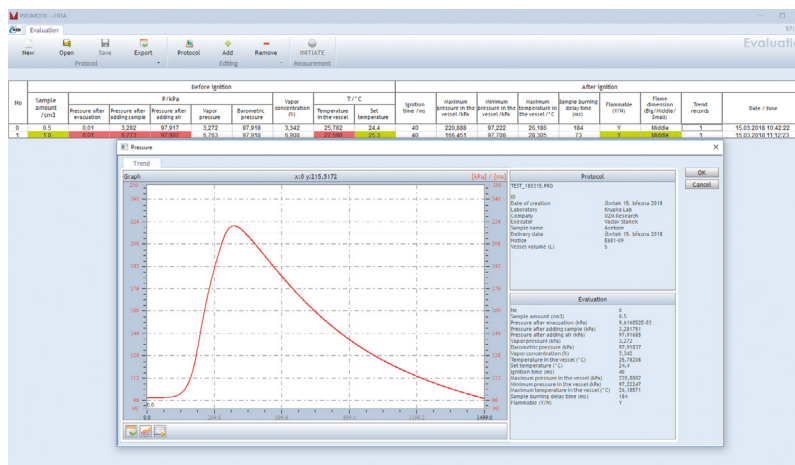
The FRTA I is used to measure lower and upper flammability limits of gases and vapors in the air at defined temperatures and pressures. The flammability limits are necessary for preparation of guidelines for safe handling of flammable chemicals and their fire hazard assessment.

### ADVANTAGES & FEATURES

- ▶ Precise settings of experimental conditions (high voltage, pressure and temperature)
- ▶ Recording and display of pressure time curve after ignition for easy evaluation of results
- ▶ Safe operation of the FRTA I equipped by safety glass window and bursting membrane for the evacuation of fragments and pressure wave generated by explosion/implosion of glass testing vessel
- ▶ Remotely controlled firing (high voltage spark ignition)
- ▶ The maximum operating temperature of the FRTA I is 150 °C
- ▶ Autonomous operation not needing an external computer



FRTA I electrodes



Results of the flammability test – pressure-time record

### COMPLIANCE

- ASTM E 681-09



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