DCA 25

DETONATION CALORIMETER

The DCA 25™ is a detonation isoperibolical calorimeter which is designed and made by OZM Research for the determination of detonation heat of all kinds of explosives. In addition, combustion and/or explosion heat can be analyzed as well. The DCA instruments offer superb precision, semi-automatic operation, durable construction, easy to use concept and a one-box design with an integrated water cooler and a bomb manipulator.



The DCA 25 (4.7 L volume, max 25 g of TNT equivalency) is well suited for the characterization of performance properties of high explosives or propellants in their research, development, manufacture and in-service surveillance.

ADVANTAGES & FEATURES

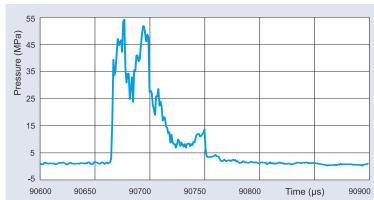
- ▶ Superb resolution of thermometers: 0.00001 K
- ► Results reproducibility as low as 0.2 %
- Water supply (all process water is stored inside inner tanks)
- Two tanks allow for non-stop testing thereby reducing the operation time
- ▶ Advanced water management with integrated chillers provides precise dosing and conditioning
- ► Easy to operate interface with LCD touch screen, wireless keyboard and mouse
- ► Fully automated data acquisition, evaluation and management with remote access features
- ▶ Built-in dynamic pressure sensors upon request
- ▶ High strength stainless steel detonation chamber for testing in vacuum, air, nitrogen, argon, oxygen etc.
- ▶ Built-in bomb manipulator and detachable cart for easy positioning.

COMPLIANCE

- **AS 1038.5**
 - ASTM D240
- **ASTM D4809**
- IS 1350-2
- **ASTM D5468**
- ASTM D5865
- ASTM E711
- CSN EN 14918
- **DIN 51 900**
- ISO 1928
- JIS M 8814







High frequency pressure record



DCA 25 bomb

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