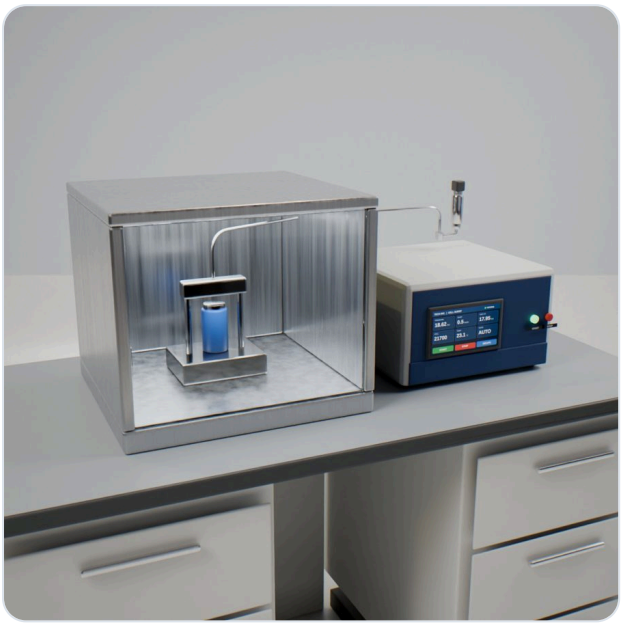
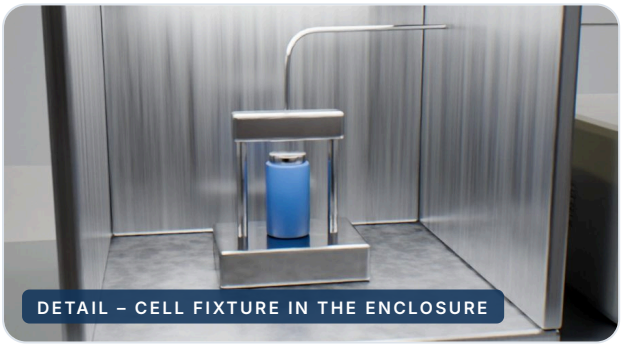
PRODUCT DATASHEET

Battery Cell Burst and Vent Pressure Tester

Vent and burst pressure of cell cans and caps





DETAIL – CELL FIXTURE IN THE ENCLOSURE

OVERVIEW

The Tech Inc. Battery Cell Burst and Vent Pressure Tester measures the pressure at which a battery cell's safety vent opens and at which the can or cap bursts. The empty can or cap assembly is sealed in a fixture inside a protective enclosure, gas or liquid pressure is ramped, and the controller records the vent and burst points.

MODELS AND CONFIGURATIONS

- **Cylindrical cell model** – 18650, 21700 and 4680 formats.
- **Prismatic model** – cap plates and vents.
- **Hydraulic model** – higher burst pressures.

TYPICAL DESIGN DATA

Model	TI-BBT-100 series
Pressure	Up to about 50 bar gas, higher with hydraulic option
Logging	Fast sampling to capture the vent event
Fixtures	Per cell format
Outputs	Vent pressure, burst pressure, pass/fail

APPLICATIONS

Cell can and cap makers, battery cell manufacturers, vent supplier quality control and battery safety research.

KEY ADVANTAGES

- **Safe** – enclosed fixture
- **Fast** – seconds per test
- **Exact** – fast logging catches the vent point
- **Adaptable** – fixtures for each format

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

Disclaimer: All products, designs and content are the property of Tech Inc. Tech Inc. reserves the right to change specifications and details without notice. Images are for representation only; the supplied equipment may differ in appearance. Data are typical; final design to client specification.