

ExtremeEvent 1000

ExtremeEvent

ExtremeEvent is a device designed for conducting destructive tests on electrical components and energy storage devices. During these tests, the specimen is exposed to thermal, electrical, and mechanical conditions outside the specified range. This exposure may influence material properties and hence will allow investigation into the functional safety and nature of thermal runaway.

Our highlights:

¬ Coverage of international standards & norms

¬ Safety with EUCAR Hazard Level 7

¬ Reusability of the equipment even in the event of several extreme events

¬ ATEX marking (gas group IIC)

¬ Modular design

¬ Pressure relief through patented flap mechanism

Technical Data.

ExtremeEvent 1000	
Maximum pressure surge load of the test space [bar]	1
Maximum permissible rate of pressure rise (stoichiometric hydrogen-air mixture) [bar*m/s]	500
TEST SPACE	
Testspace volume [l]	1000
Test Space Dimensions (H x W x D) [mm]	1000 x 1000 x 1066
EXTERNAL HOUSING	
External Dimensions (HxWxD) [mm]	2677 x 1765 x 1664

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Selection of relevant options

Label	Description
Temperature control by external conditioning unit	To conduct thermal abuse tests, or to create an environment above/below the atmospheric conditions, an external air conditioning unit is connected using a pneumatic slide valve which is capable of closing/openeing within a second.
Integration of Mechanical bench system	To conduct mechanical abuse tests such as integrity test, nail penetration test or crush test, a customizable mechanical bench system can be integrated with the ExtremeEvent.
Additional Chamber Inertization Device	In case of extended fire event in the chamber, an additional inertization device is integrated to flush N2 gas in the chamber, requiring no human interference in the extinguishing process.
High speed camera	Recording high resolution photos and slow motion videos for better study of the nature of thermal runaway is now possible with the integration of the high speed camera with the ExtremeEvent. The frame rate, resolution are customizable based on the requirements.