

Strategic partnership of SET and ThermoTEC shows best-practice example for long-term reliability testing in semiconductor field

Wide bandgap materials such as silicon carbide (SiC) and gallium nitride (GaN) are shaping the future of power electronics. Combined semiconductor test systems with various test options already offer the possibility of performing reliability tests specifically tailored to the material properties. This is precisely where the semiconductor test systems from SET GmbH - Smart embedded Technologies and the climatic test chambers from ThermoTEC come in. "The cooperation with SET thrives on a particularly open and cooperative communication culture. Our customers thus have access to all necessary resources at all times, from the moment of inquiry to commissioning and during active operation of the overall system," says Florian Häusel, head of sales at ThermoTEC.

SET, based in Wangen im Allgäu has many years of expertise and experience in the development of innovative reliability test systems for the semiconductor industry. Since its founding in 2001, the company has experienced constant growth and today employs more than 120 people at three locations worldwide. SET focuses on outstanding technical solutions in the entire value chain of electronics and test system development. With further international locations already planned, SET is on its way to becoming a global player as well as an international market leader in the field of innovative test systems for wide bandgap semiconductors.

As a member of the ECPE (European Center for Power Electronics), SET is involved in the ACQ 324 working group. The continuous exchange with manufacturers, re-sellers and customers as well as institutes, research facilities and universities enable a precise and far-sighted focus on all requirements of the semiconductor industry. Thanks to their standardizability, the test and qualification solutions create a future-proof basis for innovative developments.

The combination of ESPEC's climatic test chambers for environmental simulation, ThermoTEC's nationwide service network, and SET's state-of-the-art technologies creates dynamic test systems of the highest product quality for performing reliability tests in the semiconductor sector. The synergy effects from this partnership offer end customers in the semiconductor industry an optimally coordinated overall package with test systems that are designed to meet the challenges of the industry, for example in the automotive industry. This enables the development of binding standards and guidelines.

Particularly in view of the continuing semiconductor shortage and the steadily growing demand for microelectronics with a high power density, this offers end customers the corresponding planning security and lays the foundation for reproducible reliability tests - under more difficult and thus performance-influencing climatic conditions. SET and ThermoTEC stand together as strong partners for this.

If you have any questions about the combined semiconductor test systems from SET and ThermoTEC or need more information about the ESPEC climatic test chambers, please do not hesitate to contact us.

CORPORATE NEWS



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Precise and up to date: Dynamic H3TRB / DRB test systems for wide bandgap materials from SET and the climatic test chambers from ThermoTEC enable innovative reliability tests for SiC and GaN semiconductors.

CONTACT

Managing Director/ Technical Manager

Fabian Habich

Phone: +49 (0) 6471/6293-204

E-Mail: F.Habich@ttwe.de

Head of Sales

Florian Häusel

Phone: +49 (0) 6471/6293-224

E-Mail: Haeusel@ttwe.de

www.ttwe.de

ThermoTEC Weilburg

Friedenbachstraße 18

35781 Weilburg

COMPANY PROFILE

ThermoTEC has been the specialist for sales and service of climate testing technology for 30 years now. Our product range covers the entire application spectrum of climate testing technology: climate test chambers, temperature shock test chambers, HAST systems as well as other devices and systems for environmental simulation from the renowned manufacturer ESPEC, climate chambers and plant growth chambers for botanical examinations, test chambers for the pharmaceutical industry, data acquisition systems as well as test chambers for battery tests and weathering tests. ThermoTEC has been convincing its customers with innovative technology, sound expertise and customized solutions since 1991.