NI is now part of Emerson.

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H(3)TRB / HTGB test systems

High Volume and High Performance baselines for low test costs at high quality and throughput

For H(3)TRB (High Humidity High Temperature Reverse Bias) and HTGB (High Temperature Gate Bias) we offer two product lines: High Volume and High Performance test systems.

Both innovative systems are based on an open platform and are scalable, modular and standardized. However, they differ in the number of test object channels and the scope of technical possibilities.

High volume test systems focus on scalability of DUT channels and testing of high volumes of DUT on small space.

High performance test systems focus on scalability in test functions and offer features such as integrated fully automatic read-out functionality, characterization, single DUT tempering and temperature control.

A failure of the DUT does not lead to test interruptions. In addition, all test types can take place within one test cycle. During the fully automated test process, all test data is automatically reported and after characterization is complete, the test continues unattended.

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	High Volume	High Performance
Maximum devices under test (DUT) per system (fully monitored)	up to 960	up to 480
HTRB test voltage	up to 2000V	up to 3500V
Source current measurement ranges	• 4mA • lower range on request	• 500µA, 1mA, 10mA, 20mA, 100mA, 200mA
Gate voltage	• -40V to +40V • SW configurable	• -40V to +40V • SW configurable
Gate current range	+/- 400µA	10mA
Features	• HTGB capability • Over current protection • DUT group disconnect on one channel failure	• HTGB capability • Current range switching • Over current protection • Single DUT channel disconnect on failure
In-Situ characterisation	• Only available with the High Performance line	• Breakdown Voltage (optional) • Forward Voltage (optional) • Drain-Source On-Resistance (optional) • Threshold Voltage (optional)
Environmental conditions	According to given standards: H3TRB (85°C / 85%rh), HTRB and HTGB up to 200°C	
Software and test procedure	• Fully automated test procedure • Measuring data saved in tdms-file • Software based on LabVIEW and TestStand from NI	
Safety	• Connection and evaluation with software for external safety locking of the test chamber • Safety voltage monitoring of the HV plug connection • Safety release of the HV power supply units	

Get more information about H(3)TRB / HTGB test systems by scanning the QR code or write us an e-mail to set-info@ni.com!