PRODUCT DIVISION
TESTSYSTEMS

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LV124-TESTER

TESTSYSTEM FOR LV124 TESTING OF LOW-POWER ECUS AND SENSORS

BE SMARTER

- The SMART Flow test automation framework includes a comprehensive software library with standardized functions for LV124-compliant testing.
- Efficient test configuration: LV124-compliant test sequences can be flexibly configured from established test building blocks
- High-resolution data acquisition for the analysis of dynamic signal behavior.
- Optimized for testing control units (ECUs), sensors, and low-power ECUs.
- Integrated limit value and temperature monitoring.
- Easy integration of new devices into the test setup.

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Application Areas

The LV124-Tester from SMART Testsolutions is used in development, pre-series, and series test environments where electrical and electronic automotive components must be reliably tested in accordance with the LV124 standard. By enabling parallel operation of up to six devices under test, the system is well suited for test environments with high throughput requirements generating and measuring voltage, load, and fault conditions. Uniform test sequences can be applied across multiple units, with each DUT interface operating independently and supporting identical IDs and diagnostic structures. A key application is the standardized execution of recurring LV124 tests across different project phases. Test automation based on SMART Flow allows test sequences to be configured graphically and adapted to different DUT or requirements without the need to implement individual script solutions for each variant. In addition, system functionality can be extended via a Python-based test library.
Integration into existing test infrastructures is achieved through defined hardware and software interfaces to bus systems, measurement equipment, and diagnostic tools. This enables the LV124-Tester to be flexibly integrated into a wide range of test concepts and test environments.

Technical Data	LV124-TESTER
Max. number of DUT	6
Voltage	110 - 240V_{AC}
Protection	6,3 A
Protection of DUT supply	2 AT
Relative humidity	20 to 60 %
Dimensions (H x W x D)	245 x 615 x 525 mm
DUT Interfaces	CAN, LIN, RS-485, e^2-C
Interfaces (additional interfaces available on request)	1 x Ethernet max.1000 Mbit/s via RJ45 connector, 1x USB Typ C, 1 x System-CAN via 9-pin D-SUB connector, 6 x multipin DUT interfaces, 1 x trigger interface for controlling external components

- **OPTIMIZED FOR LV124 TESTING**
- **INTEGRATED TEST AUTOMATION FRAMEWORK**
- **EXPANDABLE TEST LIBRARY**

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