

LXinstruments GmbH
Rudolf-Diesel-Str. 36
71154 Nufringen
Germany



TECHNICAL PRODUCT INFORMATION

Test & measurement instruments

- high - quality
- moderate prices
- excellent precision

Your contact:

Technical support, services, demo & rental equipment, price information
& quotes, consulting:

Tel.: +49(0)7032 / 895 93-3

Mail: sales@lxinstruments.com

Web: www.lxinstruments.com

Shop: www.lxinstruments.com/shop

LXI Open Platform for Safe and Scalable Functional Test

Precision Signal Switching, Measurement, and Control Solutions for Automated Test Equipment (ATE)

Electronic test systems worldwide use VTI switching and measurement systems



VTI switching and I/O systems enable reliable, safe testing of missile, avionics, and aerospace electronic systems

VTI is the industry leader in demanding mil/aero switch and I/O applications



Scalable solutions cover a broad range of applications from DC to light

VTI is committed to providing systems that outlive the products they are designed to test, with 20+ years of availability



Key Highlights

- ▶ Modular LXI-based open test platform for functional test development
- ▶ Flexible 1U and 3U rack configurations in half-rack and full-rack mainframes
- ▶ Integrated 6½-digit, 24-bit DMM for high-precision measurement
- ▶ Easy integration through IVI drivers (Windows/Linux), LabVIEW™, SCPI, embedded web GUI, and turnkey software solutions
- ▶ Scalable signal switching from DC to light, supporting up to 1000 V and 30 A
- ▶ Integrated authorization and safety features for enhanced system reliability, equipment protection, and operator safety
- ▶ Precision AC/DC voltage and current generation with AWG capability (single-ended or differential, up to ±160 V / 160 mA)
- ▶ High-performance RF & microwave switching with frequency coverage up to 110 GHz
- ▶ Comprehensive HIL and sensor simulation, including high-current DIO, fault insertion, RTD and resistor ladder emulation, and real-time comparator monitoring

Industries & Applications



Aerospace & Defense: Avionics component testing, rocket/satellite telemetry, and space launch system validation.

Automotive: Electric vehicle battery management systems (BMS), engine control unit (ECU) validation, and sub-assembly testing.

Satellite & Telecommunications: High-density RF and microwave routing matrix verification.

Medical & Commercial Electronics: Quality assurance functional testing for contract manufacturing and medical devices.

Medical &
Commercial
Electronics



Aerospace & Defense



Automotive



Satellite &
Telecommunications



Intelligent Switching

Developing the optimal switching solution is part science and part art. VTI Instruments switching products have an industry-wide reputation for maintaining signal integrity while minimizing the time and expense required for test system integration. A rich, onboard feature set provides system engineers with the tools needed to meet project requirements on time and within budget.

Features

- ▶ Confidence Checking
- ▶ Extensive Triggering
- ▶ Automatic Scanning
- ▶ Safety Interrupt
- ▶ Programmable Timing Delays
- ▶ Path-Level Programming
- ▶ Relay Odometers
- ▶ Automated User Calibration for ADC & DAC
- ▶ IEEE-1588 Time Synchronization
- ▶ Web-Based Monitoring & Control
- ▶ Broad Product Range
- ▶ Long Product Lifecycle Support



RELIABLE DATA FIRST TIME EVERYTIME

AMETEK Programmable Power
9250 Brown Deer Road
San Diego, CA 92121
+1 858 678 4440

sales.ppd@ametek.com
www.programmablepower.com
www.vtiinstruments.com