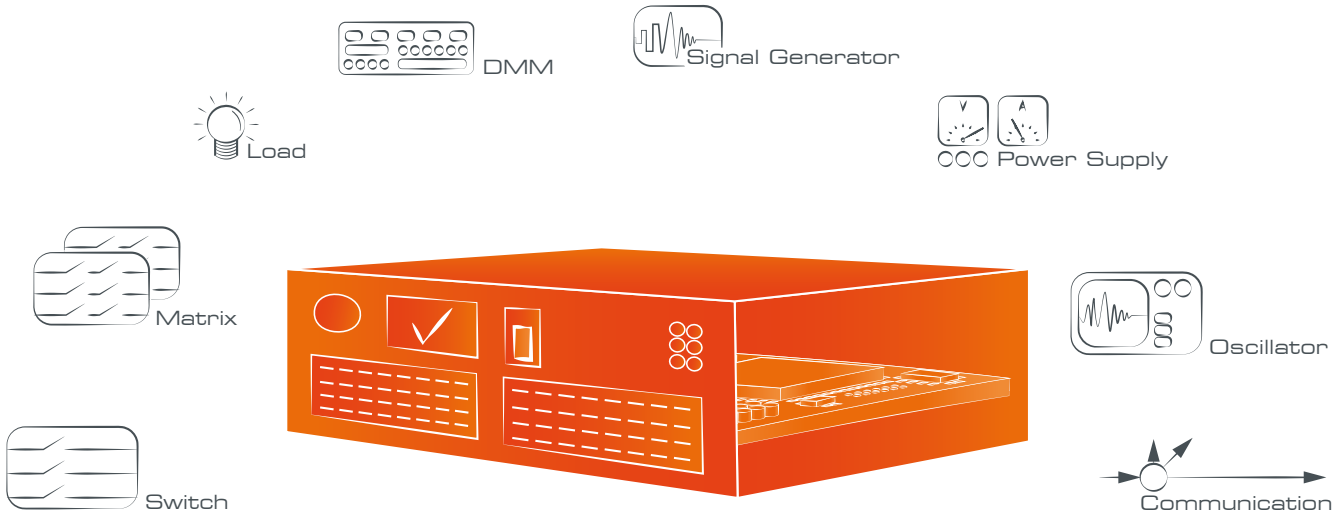
# Industrial Function Test · Technology

## Customised solutions
## from single to End-of-Line test systems




Signal Generator | Connectorfield | PXI | GPIB | LOADS | PASS | FAIL

- customised solutions
- end-of-line test systems
- in-line test systems
- stand-alone test systems
- PXI test systems
- interfaces: Ethernet, USB, I2C etc.
- modular measurement technology
- modular loads
- open system architecture
- digital function test
- analogue function test
- wiring test

GOPEL electronic
Enjoy Testing

Configurable to customer specifications – Industrial Function Test


## Configuration can be changed as required

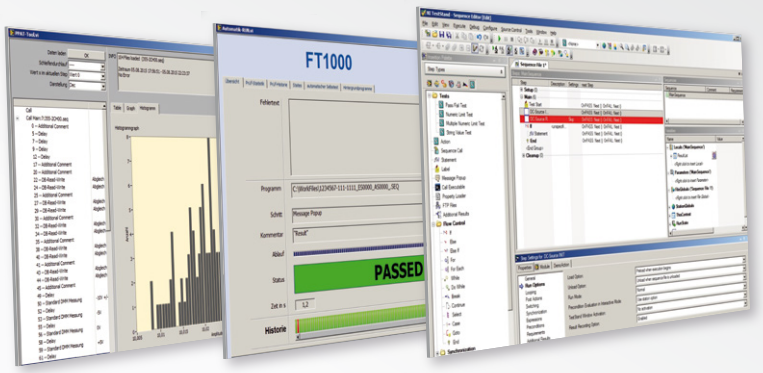
- function testing of any electronic products required, such as programmable logic controllers, temperature sensors, heating control units, etc.
- function testing systems tailored to customer requirements
- solutions for small quantities
- solutions for system integration in mass production

| Batch testing · End-of-Line example | |
|---|---|
| rack system | 19” with 20HU, ventilation |
| power distribution | NV230V oder NV400 |
| power supply | 4-way modular, max. 400 W |
| | module 35V/1.5A |
| | module 20V/2.5A |
| load rack | system demand control for up to 48 loads |
| | load modules on request |

| | |
|---|---|
| PXI rack | 18 slots: MXI express, DMM PXI 4070, signal switch PXI 3118 (matrix), signal switch PXI 3132 (32 single relay), power switch PXI 3116 (16 power relay) |
| transfer interface | ODU-MAC connector system |
| monitor | 20” |
| system computer | Simatic IPC |
| system software | Progress 2 |

## Software

- standard software from National Instruments TestStand
- step types for the graphical input of parameters
- debugging of test sequences
- test log, HTML-based
- connection to the statistics tool




statistics tool for function test

system interface in test mode

sequence interface for TestStand from National Instruments

## Main application: function test for printed circuit boards without a housing

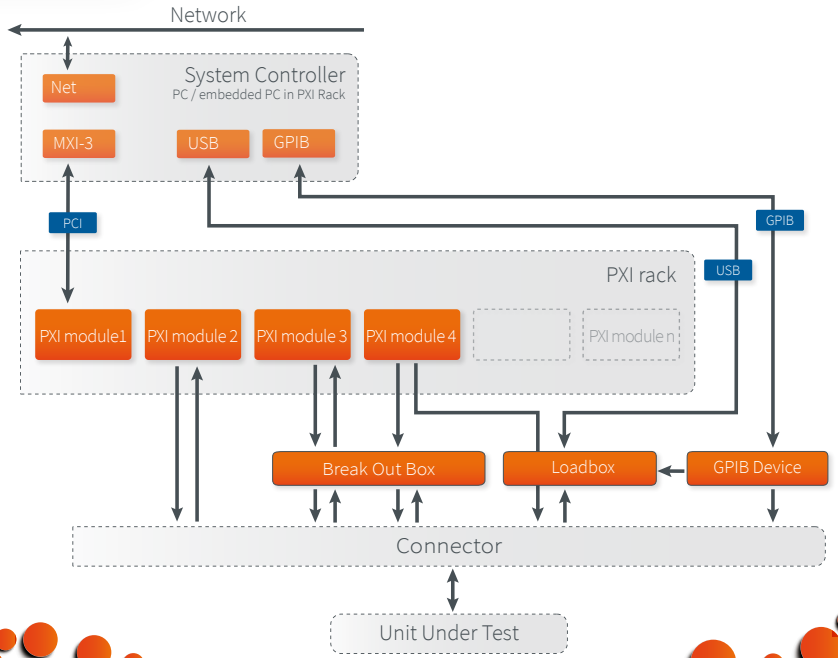
- use in small-batch production
- transfer interface occupied with 850 signals
- all individual signals are present at transfer interface
- test software for TestStand from National Instruments


| Configuration for manual testing example | |
|---|---|
| cabinet system | 19”, ventilation |
| power distribution | NV230V |
| power supply | 8 separate power supply units |
| waveform generator | Keysight 33210A |
| PXI rack | 18 slots: various relay boards, PXI DMM, 16 ch. comparator, 16 ch. analogue output, PXI FPGA, PXI JTAG controller from GÖPEL electronic, PXI CAN 2 ch. |

| | |
|---|---|
| USB interfaces | 8 |
| ethernet interfaces | 4 |
| serial interfaces | 4 |
| signal measurement | 2 ch. oscilloscope |
| transfer interface | 10 pylon blocks |
| monitor | 20”, on panning arm |
| system computer | JenTech |
| system software | TestStand from National Instruments |

## Technology

- use of standardised hardware and software
- modular set-up of hardware and software
- use of standardised connectors in the transfer interfaces
- 19” system structure
- systems can be extended as desired

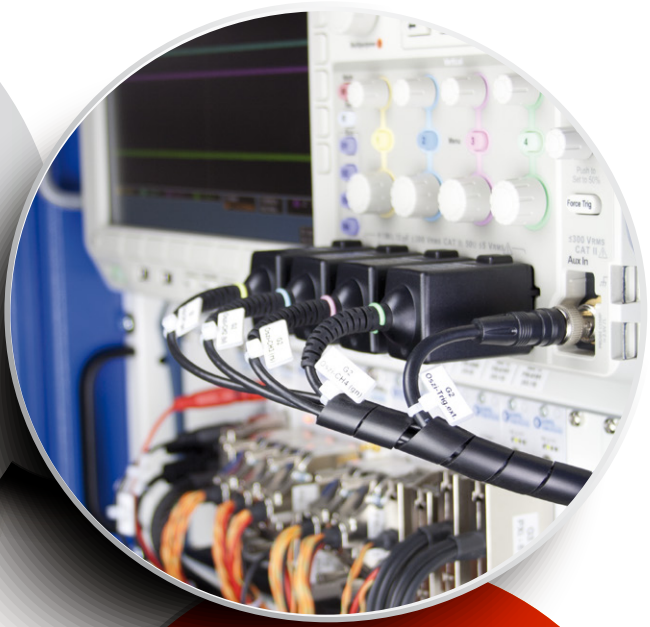


# Module system



## Custom configuration for your test solution!

Modular construction system for hardware and software



### Hardware

- the core of the system is a PXI rack
- it includes all the necessary hardware modules which are available in PXI format
- other stand-alone units in 19" format can be integrated

### The software is the test sequencer PROGRESS2 from GÖPEL electronic

- based on TestStand from National Instruments
- modularity of the software thanks to LabVIEW macros or step types in the test sequencer software
- external software modules can be easily integrated into the system software

### Open concept

- PXI hardware core can be extended using any PXI components
- external components with bus systems, such as USB, Ethernet, GPIB, etc., can be integrated

Made in Germany

GÖPEL electronic
Enjoy Testing

ISO 9001 certified

GÖPEL electronic GmbH

Goeschwitzer Str. 58/60
07745 Jena/Thuringia

0049 3641 · 6896 0 Phone
0049 3641 · 6896 944 Fax

sales@goepel.com
www.goepel.com

sales@goepel.co.uk
sales@goepelusa.com
sales@goepel.asia
sales@goepel.in