Software Electronics

ITgroup

Measuring system E-Check*IT*

Product description

The cost-effective measuring system is suitable for testing a wide range of electrical and electronic components in the industrial and automotive sectors, such as bumpers, door panels, seat adjusters, air-conditioning components, sensors and actuators, consumer electronics, household appliances and medical technology.
In addition to the automatic acquisition of all necessary resistance and current measurements, resulting data such as component presence are also recorded. The modular concept with its diverse customisable options enables use for a wide range of requirements

Field of application

Research & development, quality assurance, in-line/end-of-line testing in the field of production/manufacturing of electrical and electronic assemblies and devices.

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Technical data

Test bench/device

- Compact aluminium housing, optionally silver or black anodised
- Power supply 24 V, 5 A via external power supply unit
- Interfaces: Ethernet (optional: W-LAN extension), USB, RS232

Software

- User interface under Windows 10 for parameter management and diagnostics
  Optional:
  - Self-test" module enables a device-internal self-test of the DUT circuits.
  - Module "Scanner integration" enables communication with wireless or wired scanners
  - Module "Label integration" enables the printout of specified data during label printing
  - Module "Variant Management" enables variant-dependent switching of test sequences
  - Module "Serial Number Evaluation" enables the evaluation of the serial number
  - Module "Serial Number Generation" enables the generation of a running serial number
  - Module "Measurement Data Transmission" enables the naming and transmission of measurement data
  - Module "Process Data Transmission" enables the transmission of process data
  - Module "Reference check" enables the automatic request and execution of reference checks
  - Module "Remote Maintenance" enables remote access by ITronic service staff
  - Module "LabView Ni Virtual Instrument" enables integration into LabView applications
  - Module "OPC-UA Interface" enables the exchange of data with a higher-level controller
  - Module "IoT Gateway" enables the use of the device for decentralised measured value acquisition

Scope of testing

- 16+/16- analogue measuring channels, multiplexed, differentially individually programmable, arbitrary routing
  - Resolution 12 bit (16 bit optional), sampling rate 10 kHz, measuring accuracy ±0.5% with 12 bit, ±0.1% with 16 bit
- Test voltage 0 - 16 V, adjustable with 12-bit resolution
- Current limitation 10 µA/100 µA/1 mA/10 mA/30 mA per measurement contactless switchable
- Current measurement 0 - 500 mA

Input-/visualisation units

- Pick-to-light RGB contacting adapter
- Barcode scanner
- Label printer

Dimensions/Transport

- Approx. 170x60x160 mm (WxHxD)
- Weight approx. 1 kg

Test time

- Individual, depending on test scope

Exemplarly device type

- 468 8061

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