Safety tester

for final testing, launch 2027

AT A GLANCE

5 kV AC
High voltage up to 100 mA

6 kV DC
High voltage up to 5 mA

10 GΩ
Insulation, 50 to 1,200 V DC

32 A AC
Protective conductor, four-wire measurement



Safety One tests high voltage, insulation and protective conductor in one device and shows the affected measuring path in the event of a fault. Every attempt and every rework is stored under the serial number of the test item.

Tests

- High voltage AC up to 5 kV, 100 mA
- High voltage DC up to 6 kV, 5 mA
- Insulation 50 to 1,200 V DC, up to 10 GΩ
- Protective conductor 2 to 32 A AC, four-wire
- Monitored discharge and residual voltage
- Adapter, test plan, calibration before start
- Guided diagnostics with measuring path
- Rework and repeat test for each serial number

Equipment

Desk for the test station
Benchtop unit for stationary test stations in final testing and rework.

Front and operation
Large touch display, start, stop and emergency stop as well as a structured connection panel for high voltage and protective conductor.

Rack for the test bench
For installation in a 19-inch mounting in test benches and control cabinets, with handles on the front.

Integration into the test bench
Via the safety connection and digital inputs and outputs, you connect the interlock, emergency stop and sequence signals of your test bench.

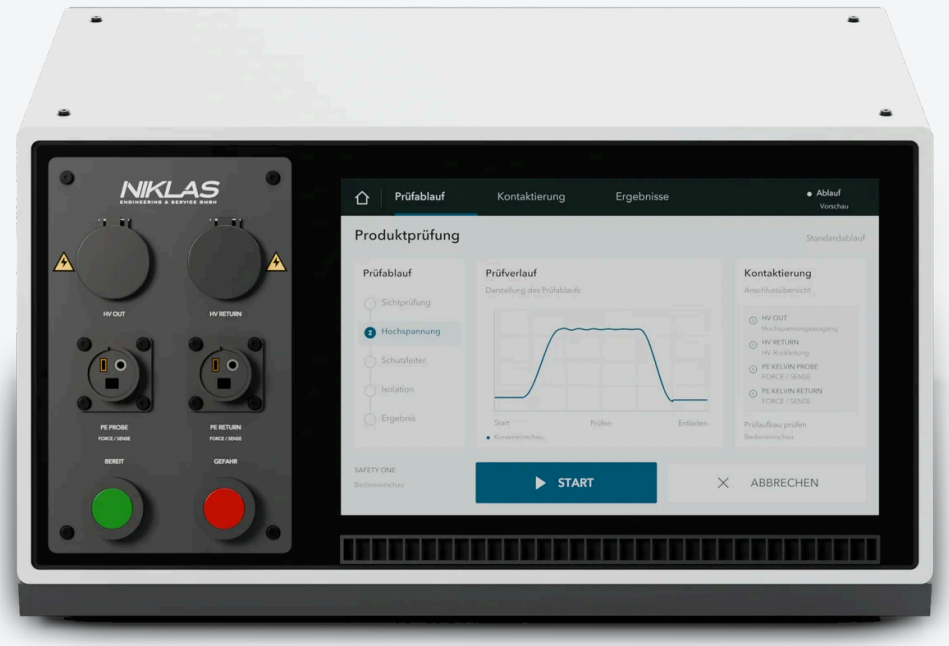
Technical data

Feature	Specification
High voltage AC	up to 5 kV and 100 mA, around 500 VA at the maximum values
High voltage DC	up to 6 kV and 5 mA, monitored discharge and residual voltage monitoring
Insulation resistance	50 to 1,200 V DC, up to 10 GΩ, separate measuring module
Protective conductor resistance	2 to 32 A AC, four-wire measurement
Measuring accuracy	HV ±(1 % + 5 V), insulation ±5 % up to 1 GΩ, ±10 % up to 10 GΩ, protective conductor ±(1 % + 1 mΩ)
Designs	Desk (benchtop unit) or 19-inch rack, same front and operation
Dimensions desk (W × D × H)	around 449 × 496 × 266 mm
Dimensions rack	19 inch, 5 U, depth around 380 mm including handles and plugs
Weight	Desk around 21 kg, rack around 19 kg
Operation	large touch display, start, stop and emergency stop
Rear connections	Safety connection, digital inputs and outputs, separate OT and IT networks, USB, warning light
Data	stored locally on the device, without internet connection. Export CSV, JSON, PDF. API
Service	exchangeable measuring cassette, calibration and reference test for each device
Mains connection	100 to 240 V AC, 50/60 Hz, max. 800 VA, appliance inlet C14 with switch and fuse
Launch	2027

Options

- Desk design as a benchtop unit
- Rack design for the 19-inch mounting
- Connection to MES and ERP via API, with sample client and data model

Software



Four working views (test, diagnostics, quality, service) guide you on the touch display from start to report. Test plans are versioned and released, and results remain locally on the device.

Request a quotation

Tell us the test item, tests and quantity. We will contact you before the launch with dates and equipment.

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As of 11/2026 · Subject to technical changes