The Flexible, Fast and Reliable Backplane-Tester

WK 260 DC

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WK 260 DC

The Flexible, Fast and Reliable Backplane-Tester

The **WK 260 DC** is the ideal tester for electrical connection and component tests on backplanes. The backplane is directly adapted using pluggable printed circuit boards, so-called paddle cards. The very simple and direct adaptation as well as the elimination of the wiring effort enable a very fast test sequence. The individually designed paddle cards can be adapted to suitable mating connectors in random order, which reduces the risk of mix-ups during adaptation. The small number of cables and the tidy test area avoid errors and increase the reliability of the test. The structured programming of the test sequence as well as the intuitive operation during the test is done with the IVISion Studio software.

Typical Applications

- Radar applications, military, Aerospace, Telecommunication
- Checking of component damage, short circuits or missing connections using press-fit technology
- Compact PCI, Advanced TCA and others

Features

Interfaces

- Standard 100BaseTX Ethernet interface to connect the WK 260 to control-PC
- Remote control interface to trigger external devices:
  - 10 Inputs: Input voltage 0–25 Vdc, Threshold LOW-HIGH at 1.5 Vdc
  - 8 Open Collector outputs max. 25 Vdc/100 mA
  - 1 Relay Output max. 25 Vdc/1 A
- Beeper
- Jack for Probe
- USB interfaces

Switching Matrix

- Protected against reverse voltages up to 50 Vdc and ESD effects according to EN 61000-4-2
- Up to 20,480 test points
- Stationary test points in basic unit
- Daisy-Chain consists of
  - up to 128 paddle cards
  - one predecoder per paddle card
  - up to 8 test points cards TM 260 DC-128p (128 test points each) per PD 1024

Predecoder PD 1024

- Automatic addressing of the test points on the paddle cards
- A predecoder can address up to 1,024 test points
- One predecoder per adapter cassette
- Maximum of 128 predecoders per system

Test Point Card TM 260 DC-128p (Daisy-Chain)

- Functionality of test points is programmable in IVISion Studio:
- Test points to measure connections, isolations, components

Test Point Card TM 260-64p (stationary)

- TM 260-64p is implemented in the basic unit of the WK 260 DC
- Additional features:
- Power points to switch external voltages to activate relays for functional tests

Test Point Card TM 260-32I-32Kelvin (stationary)

- TM 260-32I-32Kelvin is implemented in the basic unit of the WK 260 DC
- Additional features:
- High current-power-points up to 1.5 A to activate e.g. electric contactors
- Four Terminal Measurement: 32 Force / 32 Sense points

Testing and Measuring Performance

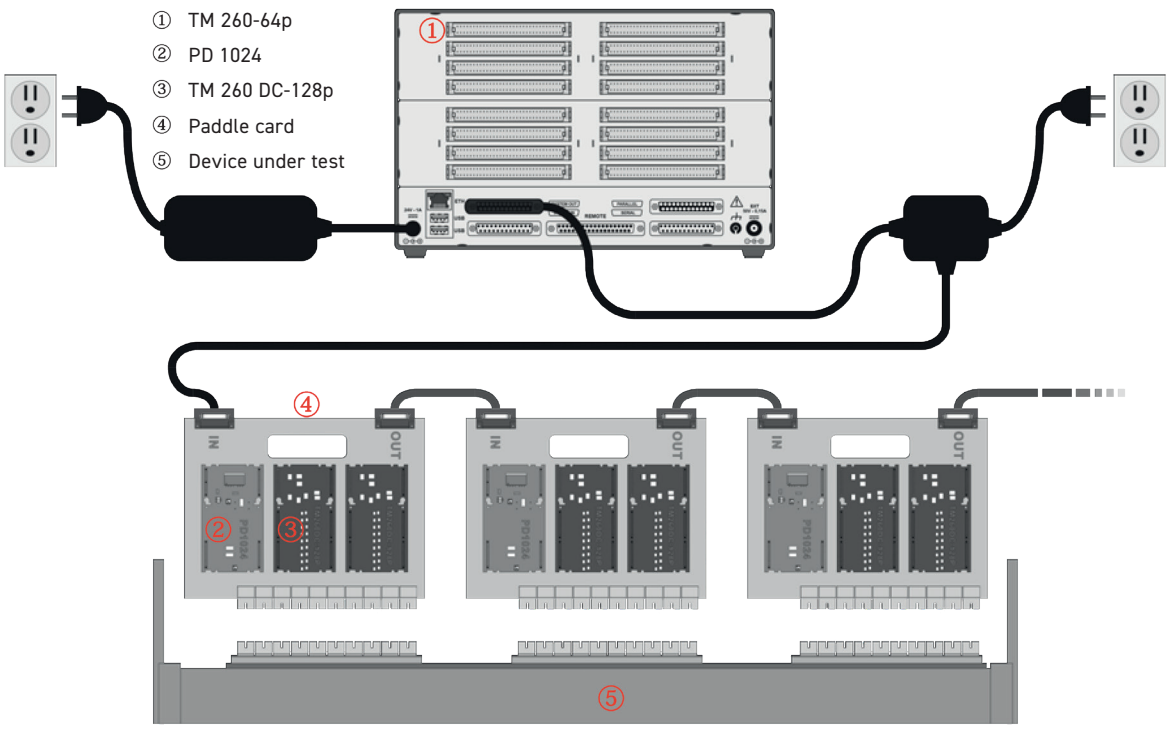
Continuity Test	· Lower bound 1 Ohm	
	· Four Terminal Measurement down to 500 µOhm	
	· 100 µA, 1 mA, 10 mA or 100 mA constant current	
Isolation Test	· Up to 100 Ohm	
	· 0–20 Vdc programmable	
Component Test	· Resistors	1 Ohm to 2 MOhm
		500 µOhm to 100 Ohm with Four Terminal Measurement
	· Capacitors	10 nF to 1.000 µF
	· Diodes/Zener Diodes	Zener diodes up to 20 Vdc
		Polarity test
		Test of forward, reverse and zener voltage
Functional Test	· Stationary test points	Supply of the UUT with external voltages (U1) up to 50 Vdc
		Maximum switchable current 1.5 A
		Measurement of external voltages up to 24 Vdc
		Measurement of external currents up to 75 mA

Typical values, being valid at the front panel of the tester without adaptation at 25 °C and a relative humidity smaller than 60 %.

Technical Data

Dimensions and Weight	· WK 260 DC: 270 x 200 x 195 (B x T x H in mm), 3,9 kg	
	· PD 1024: 119 x 69 x 10 (B x T x H in mm), 48 g	
	· TM 260 DC-128p: 119 x 69 x 10 (B x T x H in mm), 53 g	
	· The distance between 2 boxes can be 20 m, the distance from the first to the last box up to 100 m	
Power Supply	· WK 260 DC	Wall power supply, Input 135...370 Vdc/90...264 Vac, Output 24 Vdc; 0,625 A
	· Daisy-Chain	Wall power supply: Input 90...264 Vac, Output 54 Vdc, 360W

WK 260 DC (rear view)



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