

Electrical test



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Cable Tester

Our cable testing devices cover from the smallest to the highest wire harnesses in the automotive industry. It doesn't matter the size, design or characteristics, you will find the most suitable device that fits your application. They check from simple continuities to the most complicate components such as resistors, capacitors or diodes. From the simplest equipment with LCD display to the most advanced one with computer monitor offering you the most comprehensive information for the user to identify any problem. No matter which your application is, we have the appropriate device for you.

μTestem

Electrical analyzer for electrical test of wiring harness. It is a compact and robust equipment, designed to test electrically small wiring harness as well as cable for appliances, computer or body clips test.

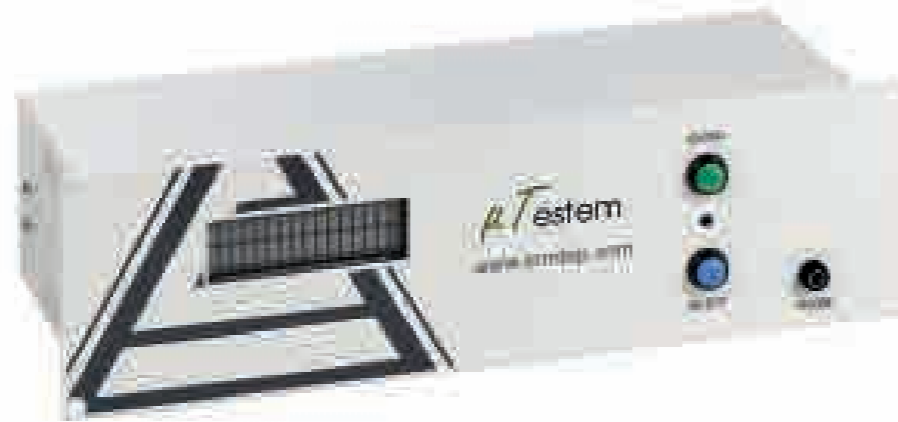
Applications

μTestem offers standard and sequential test modes, for electrical test and clip insertion respectively. It covers simple electrical test applications where a fixed process sequence is enough:

Reference selection, sequential and electrical test and label printing.

Software Description

μTestem is programmed using μEditor software; a small and intuitive application for creating in a few steps the necessary test program and upload it to



Technical Specifications		
Power Supply	Voltage	115VAC/230VAC
Electrical Test	Test Voltage Resistance threshold Open circuit test Short circuit test Detection test Sequential test Pin probe function	Up to 3.3V Non programmable YES YES YES YES YES
Test Points	Test Points	128 non expandable
Connectivity	Inputs Outputs RS-232 for printers/scanners Ethernet	2 optocoupled inputs 2 relay outputs 2 ports YES
Interface	Module LED,s Display Acoustic signal Buttons	Up to 32 Alphanumeric 2x16 retro illuminated Buzzer OK / Select
Software	μTestem	Free
Dimensions	Dimensions Weight	300 x 100 x 125 mm 2.5 Kg

Testem-R

Stand alone equipment, it is appropriate for the electrical test of small and medium size wiring harnesses, clips tables or assembly stations. The new generation of Testem-R includes new features and a new design according the latest technologies in the market such as:

- Analog Test
- USB port for program upload by pen drive
- Ethernet connection

Software Description

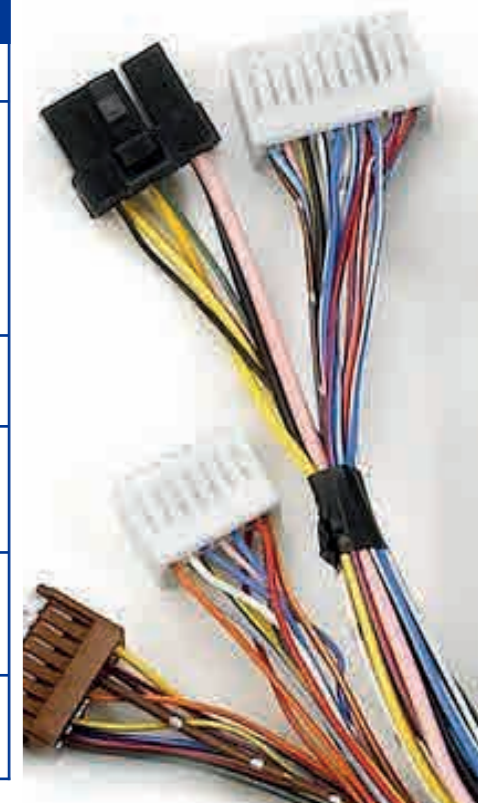
The equipment is programmed with Wintestem; using its popular graphical environment and taking advantage of its modular programming capabilities like: Easy and intuitive table edition, harness and process programming, file importers...



Applications

Suitable for subassembly process and final inspection of electrical /electronic components and small or medium wiring harnesses for computer, appliances or automotive industry. Supporting standard electrical test mode, Once OK test mode useful for those tests when it is difficult to keep all elements inserted in the counterparts as clip test, and Sequential Once Ok Test useful to force a fixed sequence order in the test.

Technical Specifications		
Power Supply	Voltage	115VAC/230VAC
Electrical Test	Hardware self-test Connector locks test Detections test Open circuit test Short-circuit test Resistance threshold Diodes Resistors* Capacitors Test modes	YES YES YES YES YES Programmable 50Ω - 100kΩ (± 5%) Polarity, Vf* (0-5V) 50Ω - 100kΩ (± 5%) 10nF - 1mF (± 5%) Normal, Once OK, Once OK Sequential
Test Points	Test points Test voltage/current Counterpart Leds	128 std version, up to 256 0 - 5V / 0 - 2.2mA All test points can drive Leds
Connectivity	Inputs Outputs RS-232 for printers/scanners Parallel Printer port Ethernet	8 optocoupled inputs 8 relay outputs 2 ports 1 YES
Operator Interface	Display Acoustic signals Buttons Languages	Alphanumeric LCD 4x20 Buzzer Numeric keypad English, Spanish, French, Portuguese, Romanian, Polishand Slovak
Programming and variables	Software Test process Variables RTC	Wintestem Programmable, full command set. Counters and string variables Included



■ USB Rack

Expandable equipment to cover all the possible wiring harness testing applications. Plug and play USB interface to computer, avoiding the necessity of additional interface cards.

Based on 64 TP expansion card, it supports all the necessary wire an components test in the wiring harness such as continuity, diodes, resistors, presence detection etc.

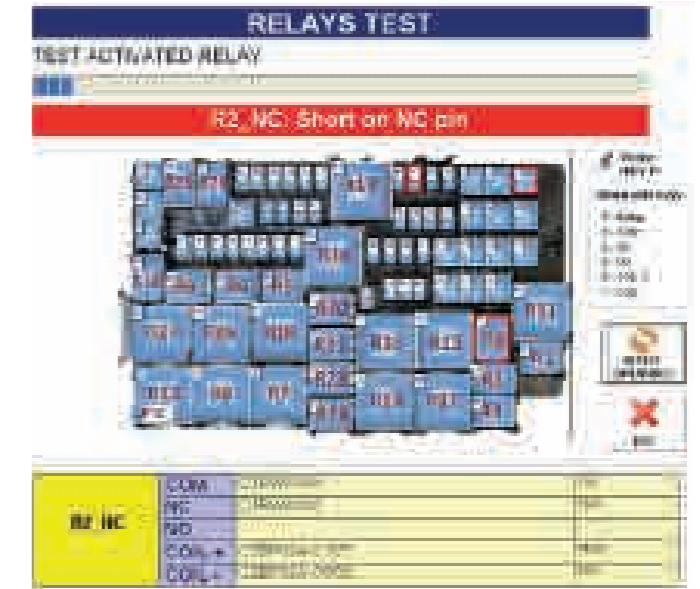


Combined with our Wintestem software, it creates a powerful solution with a highly flexible test development environment.



Relay activation test ■

Automotive harnesses can contain relays. It is necessary to energize the relay in order to check normally open contacts. This kit provides a generic solution to be integrated in Wintestem test boards to perform all the necessary quality checks of relays.



Feature	AT	DT
Test points	Up to 16000 test points	
Inputs	8 inputs (12-24 volts)	
Outputs	8 relay outputs	
Continuity threshold	Fixed	Programmable 50 - 100 K Ω
Isolation threshold	No	Programmable 50-100 K Ω
Test current	0-1 mA	0-2.5mA
Test voltage	0 -12 volts	0-5 Volts
Capacitors test	10nF–1mF (5%)	10nF–1mF (5%)
Resistors test	Extra card required	50<x<100 K Ω (5% \pm 10 Ω)
Diodes test	Presence	Forward voltage up to 5v.
LED support	All test points can control LED	
Firmware upgradeable	Yes	

Technical Specifications	
Test Voltage	12V
Current limit	ShortCircuit protection by adjustable current limit.
Relays test per card	8
Number of test card supported	Unlimited
Relay activation cycles	Programmable
Graphical visual aid	YES
LED indication on module	YES

- Relay Activation tes for Normally Open and Normally Closed contact in On and Off relay state.
- Sequential Mode test
- Fully Integrated in Wintestem Software
- Graphical interface for operator guiding
- It shows all the needed information for the operator in case of a failed test.
- LED managing for the counterparts helping the operator
- Integratable in Standard electrical test tables or Vision test combined process
- Unlimited relay configurations (part numbers) supported
- KSK supported

Wintestem Software

Wintestem Software

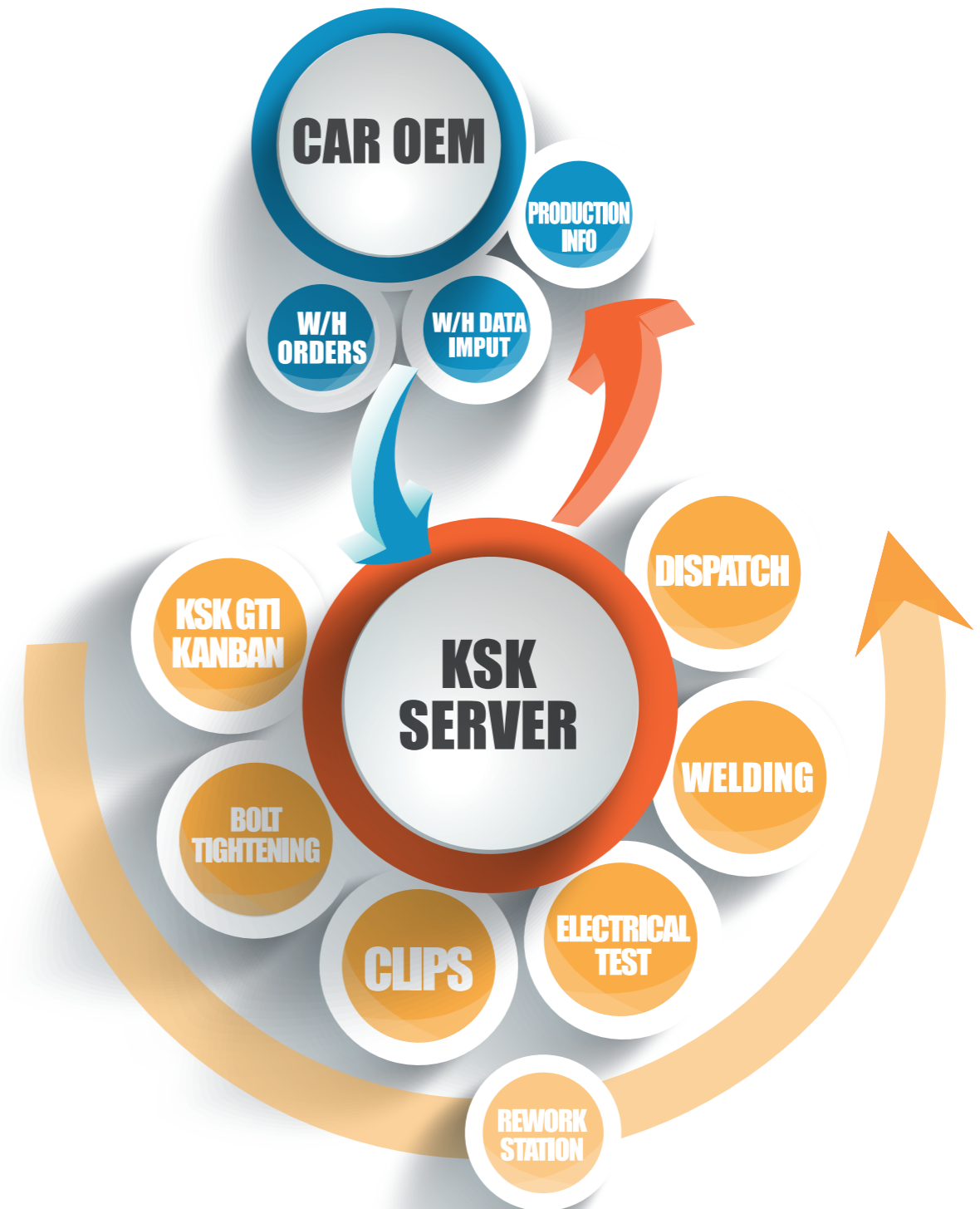
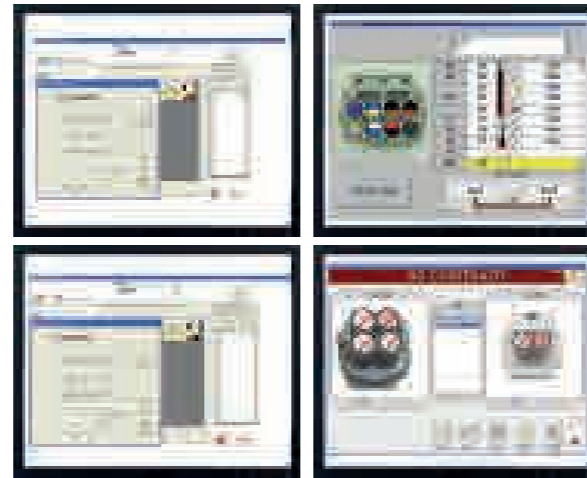
Wintestem is the main software developed by Emdep engineering department. Most important Emdep products are programmed or linked with Wintestem. Knowing Wintestem the user will know how to make an electrical test, how to program a small analyzer, test a resistor or interfacing with the rest of the plant. All these operations are accessible from a graphical interface thus minimizing the programming knowledge of the potential users.

File Importers

We have many utilities to import programming data from many formats into Wintestem system. Programming is more simple, fast and free of errors. All these operations are accessible from a graphical interface thus minimizing the programming knowledge of the potential users.

Additional Pluggins

Quality Tools
Incident Recorder, critical errors, quality block, advanced register activity
Maintenance Tools
Maintenance monitor, maintenance guided system
Production Tools
Statistical reports, visual tools



KSK

EMDEP Ksk software implements all the necessary features in order to allow to your line and complete production process to work under ksk system from any car manufacturer:
Import final customer data directly. (Kbi, DSI, Excel etc...)
Sequential test is assured along your production line
Production traceability available
Complete Harness traceability
Possibility to be integrated in your ERP/SAP system