

The future-proofed
tester that grows
with your tasks

W 434



Automotive

Transportation

Aerospace

Factory Automation



The portable **W 434** can be optimal adapted to applications in the automotive, electronics and medical industry by different combinations of low voltage and/or high voltage generators up to 1,500 Vdc/1,060 Vac and a RLC measurement bridge. In case of changing test specification only a software update is needed.

■ Testing and Measuring Performance

Continuity Test	<ul style="list-style-type: none"> • Lower bound 1 Ohm • Four Terminal Measurement down to 10 mOhms • Programmable current sources up to 1 A/max 30 W
Insulation, Hi-Pot, DC and AC ARC Test	<p>Version with HV DC/AC</p> <ul style="list-style-type: none"> • Upper limit typically 10 GOhms, up to 500 MOhms • 1,500 Vdc/1,060 Vac programmable • ARC detection with unique voltage and slew rate recognition
Insulation, Hi-Pot and DC ARC Test	<p>Version with HV DC</p> <ul style="list-style-type: none"> • Upper limit typically 10 GOhms, up to 500 MOhms • 1,500 Vdc programmable • ARC detection with unique voltage and slew rate recognition
Insulation Test	<p>Version with LV</p> <ul style="list-style-type: none"> • Up to 100 MOhms \pm 10 %, up to 50 MOhms • 48 Vdc programmable • Programmable current sources up to 1 A/max 30 W
Component Test	<ul style="list-style-type: none"> • Resistors <ul style="list-style-type: none"> 1 Ohm to 500 MOhm 10 mOhms to 100 MOhms (Four Terminal Measurement, optional) • Capacitances <ul style="list-style-type: none"> 1 μF to 10 mF • Diodes and Zener diodes <ul style="list-style-type: none"> Test of forward, reverse and Zener voltage • Transistors • Twisted-Pair and Shield Test <ul style="list-style-type: none"> from 10 pF to 10 nF Checks pair inversion and shield integrity
Component Test	<p>With RLC option</p> <ul style="list-style-type: none"> • Capacitances <ul style="list-style-type: none"> from 100 pF to 10 mF • Inductances <ul style="list-style-type: none"> from 1 μH to 1 H
Attenuation and Polarity Test	<p>GEN 1 MHz</p> <ul style="list-style-type: none"> • Frequency <ul style="list-style-type: none"> 10 to 1,000 kHz • Waveform <ul style="list-style-type: none"> Sine • Attenuation measurement <ul style="list-style-type: none"> 0 to 40 dB • Accuracy <ul style="list-style-type: none"> in the range of 10 to 200 kHz \pm 0.5 dB in the range of 200 to 1,000 kHz \pm 1 dB • Transmission level <ul style="list-style-type: none"> 500 mVp at 50 Ohms/77 Ohms 3.97 dBm at 50 Ohms 2.10 dBm at 77 Ohms • Polarity check <ul style="list-style-type: none"> in phase/dephased

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

■ Functional Test

- Supply of the UUT with programmable voltages up to 60 Vdc/25 Vac
- Emulation of the switching processes
- Voltage measurement 0 to (\pm) 500 V, frequency DC to 1 kHz
- Reproduction of the functional environment, e.g. by electronic loads, frequencies etc.
- Functional test of push buttons and switches
- Import of characteristic curves of external devices and display/interpretation by software

Software

- CEETIS smart or CEETIS as option for functional test

■ Switching Matrix

Modules for Wiring Test

- Versions for voltages up to 1,000 Vdc and up to 1,500 Vdc/1,060 Vac
- Various output connectors available

Modules for Functional Test

- Power modules for voltages up to 60 Vdc/25 Vac, current up to 3 A
- Separate high-current module for current up to 25 A, voltages up to 25 Vdc/25 Vac

■ Safety

- Non-hazardous output voltage of the high voltage generators due to certified current limitation to 1,95 mAdc, 3 mArms (according to EN 50191 max. 12 mAdc, 3 mArms)

■ Further Details

Interfaces

- Ethernet interface for control computer
- Remote Control interface (optional) to trigger external devices, e.g. feeders and fixtures
- Software-controlled integration of external devices via LAN, IEEE 488/GPIB, RS 232, CAN-Bus, K-Line
- Integration into customer specific ERP-Systems
- Remote control with handheld-PC (W-LAN) or via LAN
- Integrated, fixed voltage sources up to 3 A/up to 28 Vdc or external supplies

Dimensions

- Portable 19 inch enclosure
- W 434-2: 5 U with max. 640 test points, W x D x H (mm): 450 x 550 x 235
- W 434-3: 9 U with max. 1,664 test points, W x D x H (mm): 450 x 550 x 410
- ETE 434: 9 U with max. 1,664 test points, W x D x H (mm): 450 x 550 x 410
- The number of test points of model 3 can be expanded up to 6,656 with max 3 pcs. expansion unit ETE 434

Power Supply

- 100 to 230 Vac/50 to 60 Hz, max. 800 VA



W 434-2 with ETE 434

