

The future-proofed tester
that grows with your tasks

W 434



Cable Test

Backplane/Rack Test

Function Test

Specials

 **WEE TECH**

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 ± (2% + 0.5 Ohms) · Four Terminal Measurement down to 10 mOhms ± (2% + 2 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 ± 2% · 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 ± 2% · 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 ± 10%, up to 50 MOhms ± 5% · 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 10 MOhm, accuracy ± (2% + 0.5 Ohms) 10 MOhm to 500 MOhm, accuracy ± 2% 10 mOhms to 100 MOhms, accuracy ± (2% + 2 mOhms) (Four Terminal Measurement) · Capacitances <ul style="list-style-type: none"> 1 µF to 10 mF, accuracy ± (5% + 100 nF) · 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 100 pF to 1 µF ± (5% + 5 pF) Checks pair inversion and shield integrity
Component Test	<p>With RLC option</p> <ul style="list-style-type: none"> · Capacitances from 1 µF to 10 mF ± 5% · Inductances from 1 µH to 1 H ± 10%
Attenuation and Polarity Test	<p>GEN 1 MHz</p> <ul style="list-style-type: none"> · Frequency <ul style="list-style-type: none"> 10–1,000 kHz · Waveform <ul style="list-style-type: none"> Sine · Attenuation measurement <ul style="list-style-type: none"> 0–40 dB · Accuracy <ul style="list-style-type: none"> in the range of 10 to 200 kHz ± 0.5 dB in the range of 200 to 1,000 kHz ± 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
Time/Pulse Measurement	<ul style="list-style-type: none"> · Minimum resolution 500 ns · Maximum resolution 6.5 s · Maximum 8,191 samples <p>Typical values, valid at the front panel of the tester without adaptation at 25° C and a relative humidity less than 60%</p>

■ Function Test

- Supply of the UUT with programmable voltages up to 25 Vac/60 Vdc
- 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

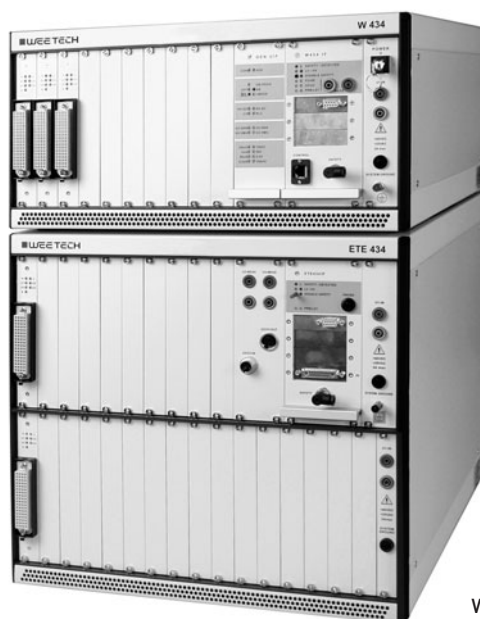
Modules for Functional Test · Power modules for voltages up to 25 Vac/60 Vdc, current up to 3 A
· Separate high-current module for current up to 25 A, voltages up to 25 Vac/25 Vdc

■ 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 IEEE 488/GPIB, RS 232, Ethernet, CAN-Bus, K-Line
· Integration into customer specific ERP-Systems
· Remote control with handheld-PC (Wireless LAN) or via TCP/IP
· Integrated, fixed voltage sources up to 3 A/up to 24 Vdc or external supplies

Dimension and Weight · 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 · 100–230 Vac/50–60 Hz, max. 800 VA



W 434-2 with ETE 434

W 434