



The Portable  
High Voltage Tester

**W 424**  
**W 427**

Cable Test

Backplane-/Racktest

Function Test

Specials

 **WEETECH**

The portable high voltage testers **W 424** and **W 427** are the perfect tester for the test of cables with high reliability and safety requirements at the aircraft cabling, wiring of machine installations, ABS and airbag cables. Based on compact design and high variety of hardware and software options these testers are the best solution for the use for final or in-process test.

## ■ Testing and Measuring Performance

<b>Continuity Test</b>	<ul style="list-style-type: none"> <li>· Lower bound 1 Ohm, <math>\pm(1\% + 0.5 \text{ Ohms})</math></li> <li>· Four Terminal Measurement down to 10 mOhms, <math>\pm(1\% + 3 \text{ mOhms})</math> [optional]</li> <li>· 10 mA or 400 mA- W 424/10 mA or 200 mA- W 427, 4 Volt max.</li> </ul>
<b>Insulation and Hi-Pot Test</b>	<ul style="list-style-type: none"> <li>· W 424: Upper bound typically 5 GOhms, up to 500 MOhms <math>\pm 3\%</math></li> <li>· W 427: Upper bound typically 10 GOhms, up to 500 MOhms <math>\pm 3\%</math></li> <li>· W 424: up to 1,000 Vdc/programmable</li> <li>· W 427: up to 1,500 Vdc/1,060 Vac/programmable</li> <li>· 12 bit resolution (max. current 3 mA)</li> <li>· Arc detection</li> </ul>
<b>Twisted-Pair- and Shield Test</b>	<ul style="list-style-type: none"> <li>· Capacitance measurement from 10 pF to 10 nF</li> <li>· Checks pair inversion and shield integrity</li> </ul>
<b>Component Test</b>	<ul style="list-style-type: none"> <li>· Resistors from 0.01 Ohm to 10 MOhms, <math>\pm(1\% + 3 \text{ mOhms})</math></li> <li>· Capacitors from 10 nF to 10 mF, <math>\pm(10\% + 1 \text{ nF})</math></li> <li>· Diodes and Zener diodes</li> <li>· Functional test keys and switches</li> </ul> <p>Typical values, being valid at the output of the tester without adaptation at 25° C and a relative humidity less than 60 %</p>

## ■ Technical Details

<b>Switching Matrix</b>	<ul style="list-style-type: none"> <li>· 64 test points per test point module</li> <li>· 64-pin output connector conforming to DIN 41612 type C</li> <li>· Many other output connectors available on request</li> </ul>		
<b>Dimension and Weight</b>	Model	Model	Model
	W 424-1/W 427-1	W 424-2/W 427-2	W 424-3/W 427-3
· Test points	320	1,024	2,048
· Test point modules	5	16	32
· Dimension (W x D x H)	235 x 420 x 177 mm	448 x 520 x 177 mm	448 x 520 x 310 mm
· Weight (kg)	up to 8	up to 15	up to 30
· The number of test points of model 3 can be expanded up to 8,192 with extension units ETE 4			

## ■ Further Details

<b>Interfaces</b>	<ul style="list-style-type: none"> <li>· Parallel interface with input port for the control computer and passthrough output for a printer</li> <li>· Control interface for remote operation and driving external devices, e.g. fixtures and feeders.</li> </ul>
<b>Power Supply</b>	· 100 - 230 Vac/50-60 Hz, max. 400 VA