WEETECH

Combines the worlds
of automation
and testing

W 434 PRO

Automotive Transportation Aerospace **Factory Automation**

www.weetech.com

Wired for Success: Testing Innovations.

The space-saving test system **W 434 PRO** can be flexibly embedded at control- (IO) or network-level (PROFINET, Ethercat or Modbus) into automation systems. An integrated, robust industrial PC provides the test data and takes over control for test procedures where performance and safety are important. Different combinations of low voltage and/or high voltage generators up to 1,500 Vdc and 1,060 Vac and an RLC measuring bridge provide optimal conditions for test applications in the connector manufacturing or automotive indu-stries. In the case of changing test specification, only a software update is needed.

Testing and Measuring Performance

Continuity Test	• 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	**Version with HV DC/AC**	
	• 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	**Version mit HV DC**	
	• 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 Test	**Version mit LV**	
	• Up to 100 MOhms	
	• 48 Vdc programmable	
	• Programmable current sources up to 1 A/max 30 W	
Component Test	• Resistors	1 Ohm to 500 mOhm from 10 mOhm, with Four Terminal Measurement (optional)
	• Capacitances	1 µF to 10 mF
	• Dioden/Zener diodes	Test of forward, reverse and Zener voltage
	• Transistors	
	• Twisted-Pair and Shield Test	from 10 pF to 10 nF Checks pair inversion and shield integrity
Component Test	**Mit RLC Option**	
	• Capacitances	from 100 pF to 10 mF
	• Inductances	from 1 µH to 1 H

Functional Test

	• Supply of the UUT with programmable voltages up to 60 Vdc/25 Vac • Emulation of the switching processes • Voltage measurement 0 to (±) 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

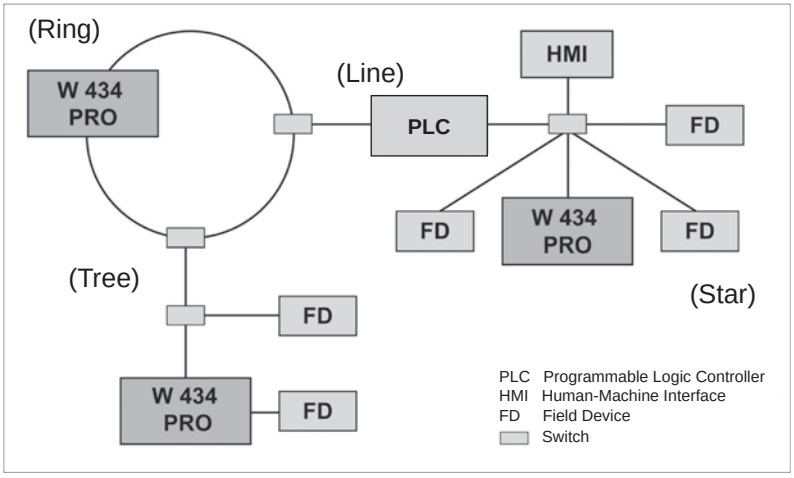
Modules for Wiring Test	• Versions for voltages up to 1,000 Vdc/750 Vac and up to 1,500 Vdc/1,060 Vac • Various output connectors available
Modules for Functional Test	• Power modules for voltages up to 60 Vdc/25 Vac, current up to 3 A • Separate high-current module for current up to 25 A, voltages up to 25 Vdc/25 Vac

Safety

	• Non-hazardous output voltage of the high voltage generators due to certified current limitation to 1,95 mA_{dc}, 3 mA_{rms} (according to EN 50191 max. 12 mA_{dc}, 3 mA_{rms})

Further Details

PC/Interfaces	• Integrated, compact Industrial-PC with 4 GB RAM, 64 GB SSD, Windows Operation System • Ethernet interface for setup, programming via remote desktop connection or access to a corporate network • Interface for communication with PROFINET, EtherCat or Modbus (optional) - Selection of a test project - Test control (Start, Stop, Abort) - Exchange of status information and - Send test result (Pass, Fail, Abort) • Control interface (optional) for communication with automation via IOs • Software-controlled integration of external power supplies or measuring devices via LAN • Integration into customer specific ERP-Systems • 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
Power Supply	• 100 to 230 Vac, 50 to 60 Hz, max. 800 VA



W 434 PRO — Integration options in various Ethernet topologies

W 434 PRO - rear view