

AK-30

Relay testing equipment



IEC 61850 testing with up to 6×60 A and 7×300 V

Serie AK-30

Three-phase relay test set, IEC 61850

amperis

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Universal relay testing with independent voltage, current and DC sources, compatible with IEC 61850.

Product overview



Front panel with output terminals

Universal testing, IEC 61850 ready

The AK-30 and AK-31 are relay test sets compatible with the IEC 61850 standard, with 10 and 13 channels respectively and a DC source that can be used at the same time. The voltage sources, current sources and the relay power simulator are independent, with complete self-protection and alarm indicators for overload, overheating, short circuit, open circuit and incorrect connection.

Every generation of relay

The AK-30 and AK-31 test all generations and types of relays — current, voltage, frequency, power, impedance, harmonics and distance — and handle high-load electromechanical relays with very high power demand. Amplitude, frequency and phase angle adjust continuously and independently.

Main features

- Compatible with the IEC 61850 standard.
- Independent voltage, current and DC sources, usable simultaneously.
- Complete self-protection against overload, short circuit and wrong wiring.
- Current transformer wiring checks and GPS-triggered testing.
- PC control over RJ45 Ethernet; RIO / XRIO import and export.
- Robust and lightweight design with friendly software.



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Applications and models

Applications

- Testing of current, voltage, frequency, power and impedance relays.
- Distance and harmonic protection, including high-load electromechanical relays.
- IEC 61850 substation testing.
- End-to-end testing with GPS synchronisation.

Model range

The AK-30 family offers AK3030i, AK3063i and AK3066i (3×30 to 6×30 A, 450-850 VA, 4×300 V/120 VA or 7×300 V/90 VA), and the AK-31 family adds AK3130i and AK3163i with 4×310 V/124 VA outputs, so the channel count and burden match the application.



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AK-30 – TECHNICAL SPECIFICATIONS

Standard	Compatible with IEC 61850
Channels	AK-30: 10 channels; AK-31: 13 channels
Current outputs	3×30 to 6×30 A; 450-850 VA (model dependent)
Voltage outputs	4×300 V/120 VA or 7×300 V/90 VA; 4×310 V/124 VA (AK-31)
DC source	Independent, usable simultaneously
Relays tested	Current, voltage, frequency, power, impedance, harmonics, distance
Protection	Overload, overheating, short/open circuit, wrong wiring
Synchronisation	GPS-triggered end-to-end testing
Connectivity	PC control over RJ45 Ethernet; RIO / XRIO import/export
Models	AK3030i / AK3063i / AK3066i; AK3130i / AK3163i



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