

AK-10

Relay testing equipment



Up to 120 A and 1000 VA of injection in a single instrument

Serie AK-10

Three-phase relay test set

amperis

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Three-phase injection of current and voltage with time measurement for protection relays.

Product overview



Front panel with output terminals

A complete relay test bench

The AK-10 combines an AC and DC voltage source, an AC current source and an AC/DC auxiliary power supply in a single all-in-one design with a built-in Windows CE system, a 4-inch TFT display, mouse and keyboard, and a separate Ethernet port for PC control. It offers up to 13 output channels and eight possible configurations, and injects current, voltage and auxiliary power simultaneously.

Power and precision together

The amplifier delivers 6×420 VA at 0-20 A, 3×520 VA at 0-40 A and 1×1000 VA at 0-120 A, with a guaranteed accuracy of 0.14 % of reading plus 0.06 % of range at 0-300 V and 0-30 A. Amplitude, frequency and phase angle adjust independently and continuously on every channel.

Main features

- All-in-one design with Windows CE, TFT display, mouse and keyboard.
- Up to 13 output channels: 6×20 A (3×40 A) / 7×130 V.
- Independent, continuous control of amplitude, frequency and phase.
- Separate Ethernet port for PC control and reporting.
- Eight configurable output arrangements.
- Built-in amplifier for high-burden electromechanical relays.



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Applications and models

Applications

- Testing of current, voltage, frequency, power and impedance relays.
- Distance, harmonic and directional protection testing.
- Wiring checks of current transformers.
- Commissioning and periodic maintenance of protection systems.

Model range

The AK-10 family covers eight models — AK1030, AK1040, AK1063 and AK1066, plus the 'i' variants AK1030i, AK1040i, AK1063i and AK1066i — from 3×30 A / 4×130 V up to 3×60 A with 6×30 A and 7×300 V, so the injection capacity matches the relay under test.



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AK-10 – TECHNICAL SPECIFICATIONS

Design	All-in-one; Windows CE, 4-inch TFT, mouse and keyboard
Output channels	Up to 13: 6×20 A (3×40 A) / 7×130 V
Current power	6×420 VA at 0-20 A; 3×520 VA at 0-40 A; 1×1000 VA at 0-120 A
Voltage output	7-phase AC (L-N): 7×0-130 V
Accuracy	0.14 % rd + 0.06 % rg guaranteed at 0-300 V and 0-30 A
Control	Amplitude, frequency and phase independent and continuous
Configurations	Eight selectable output arrangements
Connectivity	Separate Ethernet port for PC
Sources	AC/DC voltage; AC current; AC/DC auxiliary supply
Models	AK1030/40/63/66 and AK1030i/40i/63i/66i



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