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Data Sheet

August 14, 2026

ELGAR

Elgar 9010 AC Power System Controller

Elgar 9010 AC Power Source Controller Class The Elgar 9010 is an Elgar AC power instrumentation product in the 9000-series family used for AC source control or programmable AC power applications. OEM Elgar 9000 literature positions these units for programmable AC test systems with metered outputs and remote interfaces. Programmable AC power systems, avionics AC test racks, and automated AC product testing matched to the configured power stage. Programmable AC control architecture class The Elgar 9010 is an Elgar AC power instrumentation product in the 9000-series family used for AC source control or programmable AC power applications. OEM Elgar 9000 literature positions these units for programmable AC test systems with metered outputs and remote interfaces. Programmable AC power systems, avionics AC test racks, and automated AC product testing matched to the configured power stage. Programmable AC control architecture class Multi range voltage/frequency programming class



MODEL

Elgar 9010

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

9010

LISTING

<https://aumictechlabs.com/products/9010-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Elgar 9010 is a programmable AC power source module designed to integrate with compatible Elgar AC power source mainframes. It functions as a plug-in oscillator, providing precise control over output voltage, frequency, and phase angle for simulating various AC power conditions. This unit is engineered for applications requiring flexible and accurate AC power simulation, such as

research and development, manufacturing test, and quality control environments. Technical Specifications Output Characteristics: * Frequency Range: 45 Hz to 5 kHz. Frequency Resolution: Programmable in 1 Hz steps. Voltage Output: Capable of providing output voltages in various ranges, including 0-32V, 0-130V, and 0-260V, depending on the mainframe configuration. Phase Angle Control: Programmable phase angle control is available, enabling multi-phase configurations and specific phase relationships (e.g., 120°, 240° for three-phase; 90° for two-phase; 60° for open delta). Performance: * Line Regulation: $\pm 0.25\%$ at full load for a $\pm 10\%$ change in input line voltage. Load Regulation: $\pm 1\%$ from no load to full load over the full frequency range and $\pm 10\%$ input range. Adjustable to better than 0.1% for specific load conditions. For fixed frequency systems, load regulation is less than 0.25%. Response Time: Less than 50 μsec . For some Elgar SL and B Series power sources, response time is < 2 microseconds. Gain Stability: $\pm 0.25\%$ for 24 hours at constant line, load, and temperature. Output Harmonic Distortion: Typically below 0.3% midband and 0.6% over the full frequency range. For some configurations, THD is 0.6% worst case. AC Noise Level: 70 dB below full output. Electrical: * Power Source Compatibility: Designed to be used with specific Elgar AC Power Sources and Mainframes. Input Voltage: Requires input from an associated Elgar AC Power Source. Interfaces: * Programmability: Can be externally programmed via a computer or other digital commands, often through an Elgar Decoder Programmer or IEEE-488 GPIB interface when used with compatible mainframes. Physical: * Form Factor: Plug-in module designed to fit into a standard oscillator cavity of Elgar AC Power Sources. Operating Temperature Range: -20°C to $+50^{\circ}\text{C}$. Some Elgar SL and B Series power sources have an operating temperature range of 0° to $+55^{\circ}\text{C}$. Compatibility: * Mainframe Integration: Integrates with specific Elgar AC Power Source mainframes (e.g., 2253M, 3606M). Not Compatible With: Should not be used with Elgar "C" Series Power Sources due to servo problems. Why Choose Aumictech for Elgar 9010? At Aumictech, we specialize in supplying high-end AC power source equipment. Whether you need precise voltage and frequency simulation, flexible programming capabilities, or reliable performance for R&D and manufacturing test, our team ensures the Elgar 9010 delivers maximum performance for your application.

9010 Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Elgar 9010
Domain	AC power source/control
Output Type Class	AC voltage
Frequency Programming Class	wide AC frequency class
Voltage Programming Class	multi range Vac class
Phases	single or multi phase class by system
Metering	voltage current frequency power class
Form Factor	rack mount system class
Remote Interface Class	GPIB/analog class on 9000 family
AC Input	mains powered
Regulation Class	specified on datasheet
Distortion Class	low THD class
Protection	overcurrent overtemperature OVP class
Operating Temperature Class	laboratory/ATE
Series Family	Elgar 9000
Sense	remote sense class
Current Limit	programmable class
Output On Control	yes
Amplitude Stability Class	specified on datasheet
Parallel Slave Path	configuration dependent
Waveform	sine class
Programmable Control Class	yes
Operating temperature	Class: laboratory/ATE

9010 Specifications

PARAMETER	VALUE
Elgar 9010 AC Power Source Controller Class	Overview
Metered AC parameters class	9000-series Elgar system form factor
Technical Specifications	Instrument Family: Elgar 9010

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory/ATE
Operating Temperature	Class: laboratory/ATE
Operating Temperature Class	laboratory/ATE
Series Family	Elgar 9000
Sense	remote sense class
Current Limit	programmable class
Output On Control	yes
Amplitude Stability Class	specified on datasheet
Parallel Slave Path	configuration dependent
Waveform	sine class
Programmable Control Class	yes Notes Identity and family capability rows from Elgar 9010 / 9000-series literature. Confirm whether the unit isacontroller or integrated source and exact VA ratings on the faceplate.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.