

ENTRON

MICROPROCESSOR
BASED
CONTROLS

Controls for Resistance Welding EN 9000 and EN 9100 Capacitor Discharge Control



• *Simple to Program*

Push buttons and a short two-step procedure make easy work of programming any possible welding schedule.

• *New Design Reduces Cost*

Simplified design significantly reduces production costs. These savings are passed on to you.

• *Quality Tested to Performance Extremes*

Each unit is tested to insure maximum performance at customary operating levels. The ENTRON resistance welding control has consistently offered an excellent performance history.

• *Power and Control*

100 Watt-Second Capacity. Adjustable in 1-Watt-Second increments. 30 highly accurate, repeatable welds per minute.

EN9000

Features

- Welding Transformer Included
- Line cord included for 115VAC Operation

Capabilities

- 2 Unique Schedules
- Program Only the Functions Required
- LED Sequence Indicators
- Self Diagnostic LED's
- Easily Programmed

EN9100

Features

- Spot Sequence
- Process Outputs
- Welding Transformer Included
- Line cord included for 115VAC Operation

Capabilities

- 2 Unique Schedules
- Program Only the Functions Required
- LED Sequence Indicators
- Self Diagnostic LED's
- 2 Valve Outputs
- Easily Programmed
- Repeat & Non-Repeat

Exclusive ENTRON two year warranty.

EN9000 Capacitor Discharge Control

Dual Schedule, Precision Welding Control



EN9000

Style "A" Cabinet

304 mm x 304 mm x 203 mm

12 x 12 x 8

The EN 9000 Series Control is ideal for programming schedules for precision welding of miniature parts and plated materials such as bi-metal contacts, tungsten filaments, miniature relays, and precious metal accessories. The EN9000 has high speed capability for automated systems and can help extend electrode life.

- Store 2 UNIQUE SCHEDULES.

Both schedules retained in memory with power off.

- It is NOT NECESSARY to program functions not required.
- Single contactor circuitry. Process control output.
- Control can be INTERFACED with external Programmable Logic Control (PLC). Advanced interfaces available.

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EN9000 Capacitor Discharge Control Dual Schedule, Precision Welding Control

Date: July, 1996

Supercedes: New

SPECIFICATIONS

Absolute Count: Push button Data Entry with Display.
Linear output by programming control's weld parameters in
1 Watt-Second increments.
100 Watt-Seconds Capacity.
Front panel Weld/No Weld (disables firing).
External Weld/No Weld (disables charging voltage).
Voltage on Secondary = 9 Volts.
30 Welds per Minute (1 Weld every 2 seconds).

Additional Features

Microprocessor-Based Circuitry.
Process Outputs.
Dynamic Automatic Voltage Compensation, $\pm 20\%$ of Nominal Line. (AVC).
Single Stage/2 Stage Pilot.
Indicator lights for all functions on display panel.
Bright, Clear Digital Readouts.
Welding Transformer included.
Programmable Dual Schedule.
Repeatable Accuracy.
Easy, user friendly operation.
Voltage: 115V, 50/60Hz, Standard (220VAC Optional).
Line Cord included for 115 VAC operation.
Dual Initiations.
LED Sequence Indicators.
Self Diagnostic LED's.



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