Controls for Resistance Welding

EN2150

Bench Controls without Valve

• **Simple to Program**
  Using the familiar and intuitive EN2000 platform, push-buttons and a three-step procedure make easy work of programming any welding schedule.

• **Direct Reading Digital Data Display**

• **Simplified Design**

• **Direct Replacement for EN150**

• **Two Year Warranty**
  A two year warranty is offered on all ENTRON parts and assemblies. Expert phone support and application service are available at no cost.

• **Half Cycle Mode with Alternate Polarity and Polarity Reverse**

• **Dedicated Dual Schedule/Dual Sequence Controls**
  Designed for use with single phase welding machines, robotic equipment, bench welders, tweezer welders, stitch welders, machines with small heads and special machines.

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**Features**

- Spot Sequence
- Dual Weld/Dual Current
- LED Status Indicators
- All Functions Displayed Simultaneously
- Compact, Lightweight Air Cooled Cabinet
- Available with both 150 and 300A Air Cooled Contactors
- Optional Manual Current Adjust

**Capabilities**

- Two Schedules
- Weld Control Relays
- End of Sequence Output
- Dual Weld Programming
- Easily Programmed
- Programmable for ½ Cycle Operation and Polarity Reverse
  - ½ Cycle Positive Initiation
  - ½ Cycle Negative Initiation
  - Alternate ½ Cycle Program
- Program Only the Functions Required

Exclusive ENTRON two year warranty
**EN2150 Series Controls**

Bench without Valve • Dual Schedule/Dual Sequence BS1HX Controls

Date: May 2006    Supercedes: New

### SPECIFICATIONS

**Absolute Count:** Push Button Data Entry with Display
- Squeeze Count: 0 to 99 cyc, 50/60 Hz
- Weld Count: 0 to 99 cyc, 50/60 Hz
- Hold Count: 0 to 99 cyc, 50/60 Hz

Digital Phase Shift Current Control, 10 to 99% in 1% current steps
It is NOT necessary to program functions NOT required, program only functions required.

**Additional Features**
- Microprocessor-based Circuitry
- Spot Sequence
- Dual Weld/Dual Current
- LED Status Indicators
- All Functions Displayed Simultaneously
- Compact, Lightweight Air Cooled Cabinet
- Available with both 150 and 300A Air Cooled Contactors
- Error Code/Fault Outputs
- 87° First Half Cycle Delayed Firing, Anti-Saturation Circuit
- Dynamic Automatic Power Factor Equalization
- Dynamic Automatic Voltage Compensation, ±20% of Nominal Line
- Emergency Stop Circuit
- Interlocking Pressure Switch Circuit
- Single Valve output standard (without transformer)
- Manual Current Adjust (optional)

**The EN2150 Series Control** is a microprocessor based resistance welding control. This control is equipped with dual schedule, dual heat, with positive or negative 2 cycle feature.

Initiation of two different weld schedules (Squeeze, Weld, Hold, and Percent of Current) are available on separate initiation inputs.

- Store 2 UNIQUE SCHEDULES
  - Both schedules retained in memory with power off
- Allows a choice of either Positive or Negative 2 cycle firing