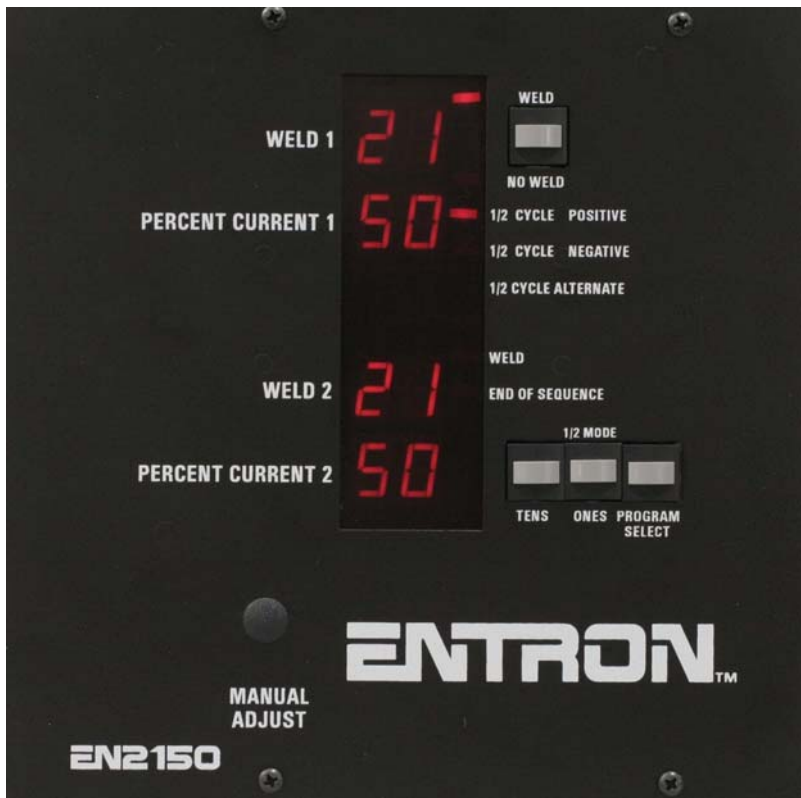


# ENTRON™

## 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.

#### 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 1/2 Cycle Operation and Polarity Reverse
  - 1/2 Cycle Positive Initiation
  - 1/2 Cycle Negative Initiation
  - Alternate 1/2 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: April 2014

Supersedes: May 2006

## SPECIFICATIONS

### Absolute Count: Push Button Data Entry with Display

Squeeze Count: 0 to 99 cycles, 50/60 Hz  
Weld Count: 0 to 99 cycles, 50/60 Hz  
Hold Count: 0 to 99 cycles, 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,  $\pm 20\%$  of Nominal Line  
Emergency Stop Circuit  
Interlocking Pressure Switch Circuit  
Single Valve output standard (without transformer)  
Manual Current Adjust (optional)



EN2150  
Style "B" Cabinet  
222mm x 222mm x 296mm  
8-3/4" x 8-3/4" x 11-3/4"

The **EN2150 Series Control** is a microprocessor based resistance welding control. This control is equipped with dual schedule, dual heat, with positive or negative 1/2 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 1/2 cycle firing

Distributed by:

**ENTRON**<sup>TM</sup>

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