Controls for Resistance Welding

EN2130

Bench Controls with Valve Output

- **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 EN130**

- **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 Polarity Reverse**

- **Dedicated Dual Schedule/Dual Sequence Controls**
  Designed for use with single phase welding machines, rocker arm, press type welders, robotic equipment, bench 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 & Valve Control Relays
- One Valve Output
- Dual Weld Programming
- Easily Programmed
- Programmable for ½ Cycle Operation and Polarity Reverse
  - ½ Cycle Positive Initiation
  - ½ Cycle Negative Initiation
- Program Only the Functions Required

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Exclusive ENTRON two year warranty
EN2130 Series Controls
Bench with Valve Output • Dual Schedule/Dual Sequence BS2HX 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 EN2130 Series Control is a microprocessor based resistance welding control. This control is equipped with dual schedule, dual heat, with positive or negative ½ 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 ½ cycle firing

• Single valve output circuitry

• Control can be INTERFACED with external Programmable Logic Control (PLC)