EN1000 Series Bench Controls

Multiple Schedule/Multiple Sequence Controls

Date: May 2006    Supercedes: April 2002

**SPECIFICATIONS**

**Absolute Count:** Push Button Data Entry with Display
- Squeeze Count: 0 to 99 cyc, 50/60 Hz
- Weld Count/Heat Count: 0 to 99 cyc, 50/60 Hz
- Cool Count: 0 to 99 cyc, 50/60 Hz
- Hold Count: 0 to 99 cyc, 50/60 Hz
- Off Count: 0 to 99 cyc, 50/60 Hz
- Weld Impulse Counter: 1 to 99 Impluses
- Slope Control/Up and Down Slope: 0 to 99 cyc, 50/60 Hz
- Digital Phase Shift Current Control, 10 to 99% in 1% current steps, all weld current functions

It is NOT necessary to program functions NOT required, program only functions required

**Standard RWMA/NEMA Programmable Functions**

Including the following as examples:
- Up Slope and Down Slope
- Quench/Temper
- Pulsation Sequence
- Multi-Weld Count/Multi-Current Select
- Pre-Heat/Post-Heat
- Seam Weld (Continuous and Intermittent)

**4 Cycle Modes**

- Non-Repeat: Single Schedule upon initiation
- Repeat: Single Schedule repeated with pilot circuit held closed
- Successive: Upon each initiation, unique successive schedules are automatically selected
- Chained: Multiple schedules can be linked to operate sequentially upon a single initiation

**Additional Features**

- 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
- Single 1/2 Cycle Weld Selection
- Polarity Reverse Switch
- Single Stage Pilot/2 Stage Pilot, Beat/Non-Beat Operation
- Operational Lights: Power On
  - Weld Current
- Indicator lights for all functions on display panel

**SPECIFICATIONS**

**Exclusive ENTRON two year warranty**

- Single Valve Output Standard: 115V or 230V (Without Transformer)
- Weld – No-Weld Switch
- Voltage: 230/460, 50/60 Hz (115, 380, 575V, Optional)
The EN1000 Series Bench Control is ideal for programming schedules for welding coated materials, aluminum, other non-ferrous metals, special alloys, multiple thickness of materials and many special part configurations.

• Store up to 50 UNIQUE SCHEDULES  
  Every parameter of each schedule individually accessible  
  Each schedule can store 11 distinct and totally different parameters  
  All schedules retained in memory with power off  
  It is NOT NECESSARY to program functions not required

• Four Cycle Modes can be programmed for complex welding schedules

• Single valve output circuitry

• Single contactor circuitry  
  Process control outputs

• Additional Standard Features:  
  External Schedule Select  
  Contactor Failed Detection

• Control can be INTERFACED with external Programmable Logic Control (PLC); Advanced interfaces available

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EN1000
Style “B” Cabinet
222 mm x 222 mm x 296 mm
8-3/4" x 8-3/4" x 11-3/4"

Contact your ENTRON Controls Representative, or Your Local Resistance Welding Equipment Source

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