

# ENTRON™

## EN1000 Series Bench Controls

Multiple Schedule/Multiple Sequence 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/Heat Count:	0 to 99 cycles, 50/60 Hz
Cool Count:	0 to 99 cycles, 50/60 Hz
Hold Count:	0 to 99 cycles, 50/60 Hz
Off Count:	0 to 99 cycles, 50/60 Hz
Weld Impulse Counter:	1 to 99 Impluses
Slope Control/Up and Down Slope:	0 to 99 cycles, 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,  $\pm 20\%$  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
- Single Valve Output Standard: 115V or 230V (Without Transformer)
- Weld – No-Weld Switch
- Voltage: 230/460, 50/60 Hz (115, 380, 575V, Optional)



*Exclusive ENTRON two year warranty*

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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"

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

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

## ENTRON™

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