

# ENTRON™

## EN1000 Series Controls Multiple Schedule/Multiple Sequence Controls

Date: April 2006      Supersedes: August 2000

### 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
- Forge Delay
- 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
- Emergency Stop Circuit
- Interlocking Pressure Switch Circuit
- Single Stage Pilot/2 Stage Pilot, Beat/Non-Beat Operation
- Operational Lights: Power On  
Weld Current  
Indicator Lights for all functions on display panel
- Valve Transformer: 150VA 230/460-115V, E, D & T Cabinets  
50VA 230/460-115V, S Cabinet
- 3 Valve outputs standard, all controls  
Valve select 1 of 7, optional

*Exclusive ENTRON two year warranty*

# EN1000 Series Controls

## Multiple Schedule/Multiple Sequence Controls



The **EN1000 Series 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
- Select and Program up to 3 **VALVE CIRCUITS, STANDARD**
  - Independently selectable and programmable
- Single contactor circuitry
  - Process control outputs
- Additional Standard Features:
  - External Schedule Select
  - Contactor Failed Detection (Circuit breaker with shunt trip, optional)
- Control can be **INTERFACED** with external Programmable Logic Control (PLC); Advanced interfaces available

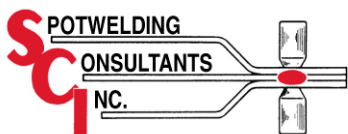
CABINET STYLE & DIMENSIONS				CONTACTOR STYLE & RATINGS			
STYLE	H	W	D	AIR COOLED	WATER COOLED		
FP	279 mm 11"	279 mm 11"			Please Contact Factory		
S	222 mm 8-3/4"	222 mm 8-3/4"	419 mm 16-1/2"	300A	1200A		
E	533 mm 21"	222 mm 8-3/4"	419 mm 16-1/2"	300A	1200A	1800A	2200A
D or T	610 mm 24"	645 mm 25-3/8"	254 mm 10"	300A	1200A	1800A	2200A

All SCR contactors complete with temperature limit switch.

Circuit Breakers available in D and T cabinets only. Consult factory for Circuit Breaker pricing. 100, 200 and 400 ampere Circuit Breakers are available in D and T cabinets with right hand, flange mounted operator installed within the cabinet. Consult factory for availability of 600 and 800 ampere Circuit Breakers.

See **COMPREHENSIVE PRICE LIST** for a complete list of Options, Circuit Breakers, Accessories and Special Features.

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



Contact SCI for additional information and pricing.  
(888) 255-6780 toll free order line  
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