

ENTRON™

Controls for Resistance Welding EN2000

Dual Schedule/Dual Sequence S2H Controls



- *Simple to Program*
- *Direct Reading Digital Data Display*
- *Simplified Design*
- *Quality Tested to Performance Extremes*
Each unit is tested to its maximum capability to assure performance at customary operating levels. ENTRON is the only resistance welding controls with the excellent performance history.
- *Dedicated Dual Schedule/ Dual Sequence Controls*
Designed for use with single phase welding machines, rocker arm, press type welders, robotic equipment, and special machines.

Features

- Spot Sequence
- Dual Weld/Dual Current Sequence
- External Schedule Select
- Error Outputs
- LED Status Indicators
- All Functions Displayed Simultaneously

Capabilities

- Two Schedules
- Repeat & Non-Repeat
- Weld & Valve Control Relays
- One Valve Output
- Dual Weld Programming
- Easily Programmed



E Cabinet

Exclusive ENTRON two year warranty

Advantages

- **Design Simplicity**

Design simplicity is the key to our ability to manufacture the highest quality weld control with the best delivery, least maintenance, and lowest out-of-warranty service in the industry.

- **Field Expandable**

ENTRON can provide retrofit controls suitable for any manufacturer's controls of any age, type or sequence for installation in the field.

- **Vault Closing Door Mechanism**

D & T cabinet doors equipped with vault locking mechanism to ensure security.

- **Applications**

EN2000 Single Contactor Controls can be applied to spot welders, special machines, or robotic equipment for welding.

- **Multiple Cabinet Options**

Available in D & T cabinet styles with front or side-mounted control panels.

D Cabinet



T Cabinet



S Cabinet



Unique to ENTIRON. All EN2000 Single Contactor Control in D or T cabinets feature provisions for field installation or change of circuit breakers.



T. J. SNOW CO., INC.

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ENTRON™

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RWMA®

MEMBER

780049-0406

ENTRON™

EN2000 Series Controls Dual Schedule/Dual Sequence S2H Controls

Date: April 2006 Supercedes: March 2001

SPECIFICATIONS

Absolute Count: Push Button Data Entry with Simultaneous Digital 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
Off Count:	0 to 99 cyc, 50/60 Hz

Digital Phase Shift Current Control, 10 to 99% in 1% current steps,
all weld current functions

Dual Weld Count/Dual Percent Current Adjust –
Front Panel and External Select

Non-Repeat: Single Schedule upon initiation

Repeat: Single Schedule repeated with pilot circuit held closed

Additional Features

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

Indicator Lights for all functions on display panel

Valve Transformer: 150VA 230/460-115V, E, D & T Cabinets
50VA 230/460-115V, S Cabinets

One Valve output standard, all controls



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EN2000 Series Controls

Dual Schedule/Dual Sequence S2H Controls

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The EN2000 Series Control is ideal for programming schedules for most welding applications for ferrous and some non-ferrous metals, multiple thickness of materials and special part configurations.

- Store Two Schedules
Every parameter of each schedule individually accessible
Each schedule can store 5 distinct and totally different parameters
All schedules retained in memory with power off
- Single contactor circuit
Single valve circuit
Contactor failed detection
- Control can be INTERFACED with external Programmable Logic Control (PLC)

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"	150A/ 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, except 150 ampere contactors.

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 ampere Circuit Breakers.

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



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