

"5. 5. Controls" was incepted in the year 1994 at Pune, Maharashtra. Mr. Sandeep Vilekar is the CEO of the company under whose headship it has been scaling new heights in its endeavor. The followings are some of the salient features of the company that set it apart in the international marker:

The company has sound support of its state of the art infrastructure at its manufacturing unit. It is well furnished with all kinds of modern and sophisticated machines for meeting the increasing demand of our products like Welding Controllers, Seam Welding Controllers etc.

at Pune,
of the
new
assurance of high
quality and standard.
They are tested on
different parameters by our
quality control supervisors. Our
team of professionals works
constantly for maintaining and up
gradating the constant quality of our

With our well established network, the company has been able to spread its market in the international market as well. Our network has also enabled in the timely and efficient distribution of our products. Subsequently, we are counted as a leading Pre Wired Control Panels Manufacturer and one of the foremost Exporters of the same.

Spot Welding Controllers

For the best quality Spot Welding Controllers, "S. S. Controls" is the perfect destination for you. The Micro Controller Based Spot Welding Controllers made accessible by us are find their application in different kinds of welding machines like table mounted microspot welders and manually operated (rocker arm type or similar) spot welding machine. They are known for their low maintenance cost. The precise time and energy control of these controllers ensures consistent weld quality. Besides, we are one of the eminent Spot Welding Machine Controller Manufacturers in India.

Micro controller Based Spot Welding Controllers

Features

- Compact User-Friendly micro controller based circuitry.
- 3W-OL/15: Three consecutive programmable weld timings preheat (W1), weld (W2), anneal (W3) with intermediate cool timings in one weld schedule to achieve high quality splash free welding.
- WCU/15: Programmable WELD Time and Cool Time in a schedule
 Non-Volatile Memory (EEPROM) to store up to 15 weld schedules.
- Easy to program with UP/DOWN and ENTER keys. Values programmed are indicated by a two-digit LED display. Individual operations within a weld schedule indicated by LEDs.
- Key lock switch provided for SET and RUN mode.
- Timings settable in terms of HALF / FULL cycles of mains supply frequency to achieve better resolution. Half cycle = 10msec / cycle for 50Hz supply. OCC | vice | 20msec / cycle for 50Hz supply.

 Precise time and energy control ensures consistent weld quality.

 ONE CYCLE and REPEAT CYCLE mode selectable by toggle switch. WELD / NO WELD switch provided on the

- Two weld schedules Externally Selectable by Two Foot Switches. This features is suitable for spot welding Guns and multispot welding machines.
 Dual Gun operation option available.

Specifications

- Input Supply: 230V / 415V AC, 50Hz/60Hz
- Output: Gate-Cathode Drive signal to drive a pair of back to Back thyristors of any capacity.

 Built in back to back thyristors for up to 95A primary current.

 - Normally Open Relay contacts for Solenoid valves.
 2 Footswitch, 2 Valve operation suitable for Spot Welding Guns.
- Compensation: Supply voltage fluctuation compensation. (Output Voltage remains within ±3 % as
- $Trigger: External \, Normally \, Open \, contacts \, of \, Footswitch. \, There \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, are \, two \, options \, available: \, footswitch \, available: \, foo$

 - Single / Double Initiation Footswitch
 Two different schedules selectable by independent footswitches.
 - · Option available for drive signal for two pairs of thyristors and two solenoid





Adjustment of various parameters possible as per table :

Applications : ·····

- Precision Control of Resistance Spot Welding Machines of any capacity 0.1kVA to 300kVA.
 Precision Control of Resistance Spot Welding Guns / Dual Guns etc.
- Multi-Spot welding machines.
- Retrofitting controls for any make / any capacity spot welders.

Microcontroller Based Spot Welding Controller Spotpic

Features

- Compact user-friendly micro controller based circuitry.
- Double initiation foot switch, FS1 operates the solenoid valve and FS2 controls
- Won-Volatile Memory (EEPROM) to store up to 15 weld schedules.
 Easy to program with UP / DOWN and ENTER keys. A two-digit LED display indicates set values. Individual operations within a weld schedule indicated by LEDs.
 Key lock Switch provided for SET & RUN mode. WELD / NO WELD switch provided on
- the front panel.

 Timings settable in terms of HALF / FULL cycles of mains supply frequency to achieve better resolution. Precise time and energy control ensures consistent weld quality.

 Relay contact output provided to actuate the Motor Drive of the welding machine.

Specifications

- Input Supply: 230V / 415V AC, 50Hz / 60Hz
- Output: Gate-Cathode Drive signal to drive a pair of back to back thyristors of any capacity.
 Compensation: Supply voltage fluctuation compensation. (Output voltage remains within ± 3 % as against ± 15% variation in mains voltage).
 Trigger: External Normally Open contact of footswitch or limit switch.

Adjustment of various parameters possible as per table :



Applications:

Resistance Seam welding machines of Any Capacity / Any Make.

Seam Welding Controllers

We bring forth high precision Seam Welding Controllers in the national and international markets. The Micro Controller Based Seam Welding Controllers that we supply in the industry are used in Resistance Seam welding machines of any capacity and make. They have compact user-friendly micro controller based circuitry with non-volatile memory (EEPROM) to store up to 15 welding schedules. The key lock switch is provided for SET & RUN mode and WELD / NO WELD switch is also there on their front panel. In addition to this, we are one of the machine resistance Seam Welding Controllers Manufacturers in the country.



- Features
- Compact user-friendly micro controller based circuitry.
 Double initiation foot switch, FS1 operates the solenoid valve and FS2 controls welding operation.
 Non-Volatile Memory (EEPROM) to store up to 15 weld schedules.
 Easy to program with UP / DOWN and ENTER keys. A two-digit LED display indicates set values. Individual
- operations within a weld schedule indicated by LEDs.

 Key lock Switch provided for SET & RUN mode. WELD / NO WELD switch provided on the front panel.
- Timings settable in terms of HALF / FULL cycles of mains supply frequency to achieve better resolution.
 Precise time and energy control ensures consistent weld quality.
 Relay contact output provided to actuate the Motor Drive of the welding machine.

Specifications

- Input Supply: 230V / 415V AC, 50Hz / 60Hz
- Output: Gate-Cathode Drive signal to drive a pair of back to back thyristors of any capacity.
 Compensation: Supply voltage fluctuation compensation. (Output voltage remains within ± 3 % as against ± 15% variation in mains voltage).

 Trigger: External Normally Open contact of footswitch or limit switch.

Adjustment of various parameters possible as per table :

Squeeze Time Slope for Weld (W1) Weld Time Weld Energy Cool Time Hold Time

Applications: ..

Resistance Seam welding machines of Any Capacity / Any Make.

Synchronous Digital Controllers

We provide technically advanced Synchronous Digital Controllers in domestic as well as global markets. The Automatic Digital Controller of Synchronous is widely used for manually operated simple Resistance Spot Welders. It can also replace simple timer contactor configuration of the welding machines. These kinds of Synchronous Digital Controllers are available with easy to easy to read thumbwheel switches for setting number of weld cycles. In addition to this, the company is regarded as one of the leading Synchronous Digital VIsi Controllers Exporters in India.



Features

- Compact user friendly low cost controller. Precise time & energy control ensures consistent weld quality.
 Easy to read thumbwheel switches for setting number of weld cycles.
- Built in compensation against fluctuations in the mains supply voltag

Specifications

- Input Supply: 230V/415V AC, 50Hz/60Hz
 Output: Gate-Cathode drive signal to drive a pair of back to back thyristors of any capacity.
 Built in back to back thyristors (95A Max).
 Weld Time: 0-99 cycles (% cycle of I/P supply frequency).
 Weld Energy: 0-100% adjustable by potentiometer.
 Trigger: External N/O contact. Actuates on contact closure.
 Trigger Delay: 0.1 sec-3 sec, adjustable by potentiometer.
 Indicators: Mains ON, WELD

Applications : ·····

- Manually operated simple Resistance Spot Welders.
- Can be used as a perfect Product for Upgradation of existing spot welders.
 Replaces Simple Timer Contactor Configuration.

Pre Wired Panels

The company is engaged in offering the finest quality Pre Wired Panels in the industry. These Pre Wired Control Panels for Resistance Spot Welding Machines are also used in Spot Welding Guns, Resistance Projection Welding Machines and Resistance Seam Welding Machines. These pre wired panels are known for their compact designs and are free from any wear and tear for a longer period of time. They also save a lot of space and consequently, we are considered as one of the leading Pre Wired Panel Manufacturers and suppliers of India



Pre-wired Panels will consists of

- 5.5.Controls Controllers as per Models described.
 Back to Back Thyristors as per Capcity of the machine Water Cooled, Air
- In-built sensor inputs for Thyristor Overheat, Transformer Overheat, Water
- MCB / ELCB / RCCB for operator safety.
 Compact design, Saves floor space.

Applications:

- Spot Welding Guns.

- Resistance Spot welding Machines.
 Resistance Projection Welding Machines.
 Resistance Seam Welding Machines.

Thyristor Power Controllers

"S. S. Controls" brings in superior quality Thyristor Power Controllers in the international market. The Microprocessor Based Thyristor Power Controllers made available by us, have single, two and three phase A.C. SCR power controllers for resistive inductive loads. These Thyristor Power Controllers can also be availed in analog version. They find numerous applications in A. C. power control of inductive and resistive loads of any capacity. Apart from the above fact, the company is identified as one of the chief Thyristorised Power Controllers Manufacturers in India.



Thyristor (SCR) Power Controllers / Power Control Circuits.

- Single / Three Phase / Two Phase A.C. SCR Power Controllers for Resistive Inductive Loads.
 Microcontroller / Analog Versions available.

Applications:

- A.C. Power Control of Inductive / Resistive Loads of any Capacity.
 Resistance Metal Gathering / Heating Machines.

Thyristor Control Cards / Circuits

- Single Phase / Two hase Thyristor control Cards for Resistive / inductive Loads.
 Microcontroller (Digital) / Analog version available.

Wire Feeder Motor Drive

The company is dedicatedly engaged in the manufacturing and supplying of high performing Wire Feeder Motor Drive in the international market. The Gear Drive Wire Feed Motor that we supply in the industry is available with DC motor drive widely used in MIG Welding Machines. These wire feeder motor drives are compact in design and are easy to fit in the welding machines. They are known for their durability and long lasting functional life. In addition to this, we are one of the distinguished Electric Wire Feeder Motor Drive Exporters in the market.



Wire Feeder Motor Drive for MIG Welding Machines.

- DC Motor Drive for MIG Welding Machines.
- Compact Design.24VDC, 36VDC Motors.
- Single potentiometer control.
 Gas check, Two Track / Four Track / Spot Timer / Solid state main contractor and solenoid valve drive.

Battery Tabs Welding Machine

"S. S. Controls" is specialized in the manufacturing and exporting of high end Battery Tabs Welding Machine in the national as well as international markets. The Microspot Welding Machine for Capacitors made available by us is manufactured using highly advanced technology. Our Battery Spot Welding Machine is used in a number of applications like manufacturing of battery packs, lead welding of capacitor elements and welding of small parts like bulbs, thermocouple wires, wire harnesses etc. In addition to this, the company is counted as one of the reputed Battery Tabs Welding Machine Exporters in India.



Specifications:



Synchronous, with Half Cycle Control.

Welding Head: Pneumatically Operated Welding Head along with series Welding Assembly and adjustable platform to hold different sizes of battery cells. 100% Liner motion. No Electrode skid movement during welding. Thickness 0.03mm-0.6mm.

Applications:

- Manufacturing of Battery Packs.
 Lead Welding of Capacitor Elements.
 Welding of Small parts like Bulbs, Thermocouple Wires, Wire Harnesses etc.

Resistance Spot Welding Controller

The company offers the best quality Resistance Spot Welding Controller in the international market. These spot welding controllers are available with secondary current feedback for constant current output. The easy to mount toroidal current sensing coil attached with them enable these controllers for accurate current feedbacks. Besides, they also have error detection system for transformer over heat, thyristor over heat, pressure, water flow etc. In addition to this, we are one of the prime Digital Resistance Spot Welding Controller

Features



- Secondary Current Feedback for Constant Weld Current Output.
 Eliminates Variation in weld output because of transformer losses.
 Current feedback with the help of easy to mount toroidal current sensing coil.
 Selection of constant current / constant voltage by user.
- User selectable spot / seam mode.
- Error detection for transformer over heat / thyristor over heat / pressure, water flow etc.



S. S. Controls

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