

INDUSTRIAL ELECTRONICS DATA SYSTEMS

Microweld Spot / Seam welder controller

Precision digital control

The Microweld controller provides accurate control for a wide range of industrial, single and three phase Spot or Seam welding applications. By using either an analogue or digital setpoint, the Microweld can be used for the precise control of power in loads that would otherwise prove difficult to regulate accurately.

Flexibility

The Microweld is configurable controller for different types of control modes, with none isolated voltage and current feedbacks from load. The solid state thyristor stack can be sized to drive the primary of any transformer used for resistive welding.

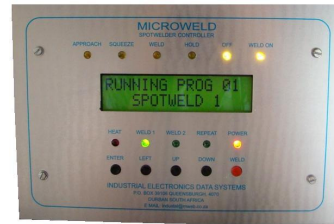
The dual level Menu is used to adjust the 30 engineering parameters. The quick set default parameter selects one of five modes of operation.

The analogue feedback interfaces and current transformer allow continuous monitoring of the load, including those with high input impedance characteristics such as chemical cells

The control method and levels can be selected remotely in either Voltage, Current, or Open Loop control.

Typical Applications

- Spot welder
- Seam welder
- Spot & Seam welder
- Grid mesh Spot welders
- Butt welding machines
- Automotive robotic welders



Features

- Electronics powered by auxiliary isolation transformers voltages 120 to 400 volts.
- Liquid Crystal Display with five push buttons, simplify Operating, Commissioning, Maintenance and Configuration.
- Three Analogue input references.
- Four none isolated Analogue Voltage feedback channels
- DC or AC Current transformer feedback
- Three Programmable digital inputs for selecting mode of control.
- Digital burst pulse firing used to trigger power semiconductor switching devices.
- Feedbacks for sensing process signals, voltage and current
- Adjustable Control Parameters, Ramp, Gain, Offset, Proportional, integral, Interval timers, Reference source, Feedback source, Cycle period, Max & Min control limits Max & Min trigger angles, Initial display mode, Address, Baud Rate.
- Multi-turn potentiometers for adjusting analogue reference and feedback signals.

Physical Dimensions (PCB kit)

Foot print 200mm high x 100mm wide, depth 75mm. Semiconductor mounting hole 100mm