

INDUSTRIAL ELECTRONICS DATA SYSTEMS

Digicon7 - Single phase AC power controller

Precision digital control

The Digicon7 provides accurate power control for a wide range of industrial, single phase loads. By using either an analogue or digital set-point, the Digicon7 can be used for the precise control of power in loads that would otherwise prove difficult to regulate accurately.

Flexibility

The Digicon7 is configurable for different types of control modes, open loop, with feedback or various load types. The single thyristor semi-pack, configured for AC control, is capable of driving either a simple resistive or inductive load or complex loads like infrared, or gas filled lamps.

The dual level Menu is used to adjust the 68 engineering parameters. The quick set default parameter selects one of five standard modes of operation.

The addition of an external interface allows continuous monitoring of the load, including those with characteristics that are dependent on time, temperature or displacement.

The control levels can be selected or set remotely, IE: Power, Voltage, Current, Displacement or Open Loop.

Typical Applications

- Heat sealing in the Plastics industry
- Vibrator feeder control
- Furnace controllers in the Metal industry
- Spot, Seam or Butt welding
- Plating rectifier - transformer primary control



Features

- Electronics powered by an auxiliary isolation transformer voltage from 12 to 400 volts.
- Three digit display with three push buttons, simplify Operating, Commissioning, Maintenance and Configuration.
- Two Isolated Analogue input references.
- Four Programmable digital inputs for selecting mode of control.
- Digital Burst pulse firing used to trigger semiconductor power switching device.
- External feedback for loads with characteristics that change with displacement, time or temperature
- Adjustable Control Parameters, Factory Defaults, Ramp, Gain, Offset, Proportional, integral, Interval timers, Reference source, Feedback source, Cycle period, Max & Min trigger angles, Max & Min control limits, Initial display mode, Address, Baud Rate.
- Multi-turn potentiometers for adjusting analogue reference signals.

Physical Dimensions (PCB kit)

Foot print 130mm high x 100mm wide, depth 75mm. Semiconductor mounting hole 80mm