

INDUSTRIAL ELECTRONICS DATA SYSTEMS

Digicon8 & 8MBK - Single phase DC power controller

Precision digital control

The Digicon8 provides accurate power control for a wide range of industrial, single phase DC loads. By using either an analogue or digital set-point, the Digicon8 can be used for the precise control of power in loads that would otherwise prove difficult to regulate accurately.

Flexibility

The Digicon8 is configurable controller for different types of control modes, with optical isolated voltage and current feedbacks from load. The full thyristor bridge is capable of driving either a resistive or Inductive load.

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

The optically isolated analogue 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, Cell Voltage or Open Loop control.

Typical Applications

- Battery Charging Systems
- Programmable Plating Power supply
- Cathodic Protection Power supply
- Transducer Excitation power controller
- DC Motor field weakening Control
- AC Motor - DC Injection Braking



Features

- Electronics powered by an auxiliary isolation transformer voltage 12 to 400 volts.
- Three digit display with three push buttons, simplify Operating, Commissioning, Maintenance and Configuration.
- Three Analogue input references.
- Two Optical isolated Analogue Voltage feedback channels
- DC or AC Current transformer feedback
- Four Programmable digital inputs for selecting mode of control.
- Digital Burst pulse firing used to trigger power semiconductor switching device.
- Feedbacks for sensing signals with characteristics that change like an Electrochemical cell.
- Adjustable Control Parameters, Set to Factory Defaults, 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 80mm