

INDUSTRIAL ELECTRONICS DATA SYSTEMS

Digicon 10 Cathodic Protection controller

Precision digital control

The Digicon 10 cathodic protection controller provides accurate control for a wide range of industrial, single and three phase cathodic protection applications. By using either an analogue or digital setpoint, the Digicon 10 can be used for the precise control of power in loads that would otherwise prove difficult to regulate accurately.

Flexibility

The Digicon 10 is configurable controller for different types of control modes, primary, secondary power control. With four isolated high impedance voltage and current feedbacks from load. The solid state thyristor stack can be sized to drive the primary a transformer, direct supply, or magnetic transducer.

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

The analogue feedback interface 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 Cell control.

Typical Cathodic Applications

- Primary transformer controller with Solid state thyristor stack.
- Primary transformer controller with magnetic transducer
- Direct power control with Solid state thyristor stack.



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.
- Cell & Coupon potential, Voltage and Current feedback signals are Optically isolated.
- 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.
- Kilo-watt meter
- Multi-turn potentiometers for adjusting analogue reference and feedback signals.

Physical Dimensions (Panel mount)

Bezel Size - 150mm high x 220mm wide, depth 100mm. Cutout 200mm wide x 100mm high.