Impressed Current Cathodic Protection
Power Supplies / DC DC Convertor & CP Controller
PS 01.004

DC DC Convertors & CP Controllers

We manufacture and supply a range of Cathodic Protection DC DC Convertors and Cathodic Protection Control Units (CPCUs).

These units are primarily used in locations where AC Power Supply is unavailable, typically along pipelines and well heads where Cathodic Protection Systems are required.

Solar, wind or thermo-electric generators are used to power motorised valves and instrutmentation and can also be used to power Cathodic systems.

DC DC Convertors and CPCUs use the latest technology in square wave rectification to control the CP.

DC DC Convertors

Our DC DC Convertors can be used to control Cathodic Protection as a stand alone unit (for example on a pipeline) or as a group to control and maintain protection in multi-pipeline systems such as a gathering system. The traditional method of controlling current to multi pipeline system is through resistors. However when one resistor is adjusted this effects the entire system leading to difficulties in setting and controlling the CP to each pipeline. Careless CP adjustments can also result in overheating the resistors. Using DC DC Convertors, each individual pipeline can be constantly maintained regardless of adjustments to other pipelines. Hockway can uniquely design and supply such a system as an entire CP package.

Our DC DC Convertors use any range of voltage inputs tailored to your requirements, but are generally as follows:

- Typical input 12-110 Vdc
- Optional inputs 24-240 Vac
- Typical output 0-48V; 0-10A
- Simple to use and install

Features:

- Multiple units can be powered from a single Transformer Rectifier
- As a multi unit system used to control individual pipelines (no need for resistor bond boxes)
- Can be used in Hazardous Areas
- Monitoring facilities
- Remote monitoring, data logging and Control Option
- GPS synchronous option.

Cathodic Protection Controllers

CPC Units can operate in constant voltage, current and potential modes. An alphanumeric LCD displays the operating parameters; output voltage.

- Typical input 24V
- High speed pulse width modulated (PWM) switching technology
- Individual user-controlled set-points
- Automatic change of control mode
- Optional data logging and remote monitoring and control

The following features apply to both systems:

- Choice of standard non-synchronous timer or optional GPS*
- High and low current alarm contacts
- Induced lightening protection
- Range of enclosures; GRP, sheet steel, stainless steel or cast aluminium for ATEX approval
- Temperature range -10°C to +58°C.

* **NB:** Units require an antenna with a clear view to the sky.

Contact

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