

# DC DC Convertors and CP Controllers

*Impressed current cathodic protection power supplies*

ENERGY & MINING



**HOCKWAY™**  
A Corpro® Company

# DC DC Convertors and CP Controllers

We design, 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 at well heads where cathodic protection systems are required.

Solar, wind or thermoelectric generators used to power motorised valves and instrumentation can also be used to power cathodic systems.

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

## DC DC CONVERTORS

Our DC DC Convertors are used to control and maintain cathodic protection either as stand-alone units, for example on single pipelines, or in groups for multiple pipeline systems such as gathering systems. The traditional technique of controlling current to a multiple pipeline system is through resistors, however when one resistor is adjusted this affects the entire system, leading to difficulties in setting and balancing cathodic protection to each pipeline. Imprudent adjustments can also result in overheating the resistors.

DC DC convertors optimise the distribution of current and improve the maintenance of cathodic protection to individual pipelines.

Our DC DC convertors are tailored to use any range of voltage input but are generally as follows:

- Typical input 12-110 Vdc
- Optional inputs 24-240 Vdc
- Typical output 0-48V; 0-10A
- Simple to install and operate
- Multiple units can be powered from a single transformer rectifier
- As a multi unit system for 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)

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

- Typical input 24V
- High speed pulse width modulated (PWM) switching technology
- Choice of standard non-synchronous timer or optional GPS\*
- Individual user-controlled set-points
- Automatic change of control mode
- High and low current alarm contacts
- Optional data logging
- Induced lightning 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 an unobstructed view to the sky.

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