



CPC25A with 4-20mA transducers in Painted Steel

The CPC25A and CPC50A are part of the new generation of Cathodic Protection Controllers, which feature microprocessor control, three programmable alarm/function relays, built-in interrupt timer, and either an RS232/USB or RS485/USB port, both with Data Logging, as standard.

The two-line alphanumeric LCD displays by default the operating parameters of the unit: the output voltage set-point and actual, output current set-point and actual and half-cell (reference electrode) voltage set-point and actual. Active alarms are indicated and, using the keypad and digital potentiometer, it is also used to set up other parameters, such as low current and high current alarms, auxiliary input mode and the interrupt timer.

Three loop-powered 4-20mA modules can be included as options, as well as our GPS Interrupter for greater accuracy synchronisation.

The CPC controllers are available housed in painted steel, stainless steel or GRP enclosures, or can be supplied as PCB or mounting plate assemblies for customer final assembly. The controllers include GDT, MOV and Zener diode protection against lightning and other induced surges, as well as single-pole MCB protection on the input and output.

**Operation:**

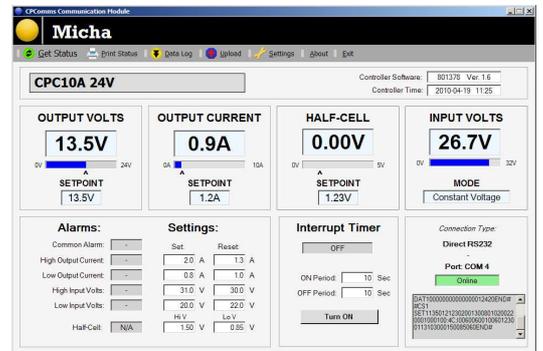
The CPC range is capable of operating with any suitable low-impedance DC power source such as an appropriate battery bank. High speed pulse-width-modulated (PWM) switching technology is used to obtain high conversion efficiency. The controllers can operate in one of three modes: constant voltage, constant current and half-cell voltage control with automatic changeover of control mode. The half-cell input can be sampled every 60 seconds (adjustable) with the input reverting to high impedance between sampling to prevent loading of the half-cell.

**Communications and Data Logging:**

The CPC25A and CPC50A are supplied with an RS232 or RS485 port which includes data logging. When connected to a PC or laptop, all main parameters and the present status can be viewed. The main set points and relay settings can be uploaded, and over 10,000 timed log events downloaded.

The logging period can be set to 15, 30 or 60 minute intervals and the addition of a GSM or PSTN modem allows full remote access and control.

An RS485 to Ethernet Interface can also be supplied adding remote MODBUS connectivity.



**Main Specifications:**

Input Voltage Ranges:	12V, 24V, 36V and 48V nominal System Voltages, Positive Common Only
Max. Output Current:	25A or 50A <i>(Adjustable in 0.1A steps)</i>
Max Output Voltage:	12/24/36/48V or Input Voltage <i>(Adjustable in 0.1V steps)</i>
Data Log Capacity:	Timed events: 10,208 max. Alarm events: 2,048 max.
Programmable Relay Functions:	Low Input Volts Low Output Current High Output Current System Normal/Common Alarm System (Output) Disabled Auxiliary Input Active
Interrupt Timer settings:	On: 1 to 9,999 seconds Off: 1 to 9,999 seconds Accuracy +/- 1%
Operating Temperature range:	-10°C to +58°C
Enclosure rating:	Painted Steel and Stainless Steel: IP66   GRP : IP65
Enclosure dimensions:	Steel (25A): 610 x 406 x 205mm GRP (25A and 50A): Steel (50A): 610 x 610 x 205mm 645 x 435 x 250mm (H x W x D)

*Specification liable to change.*