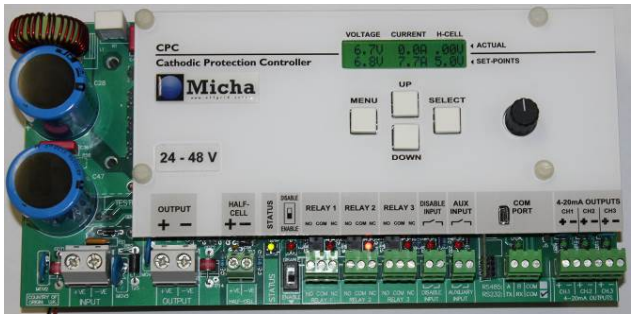
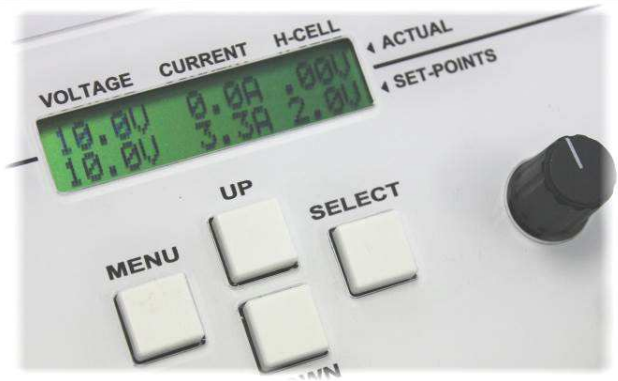




As standard, the **CPC10A** is supplied with USB and RS232 communication ports, with USB/RS485 as an option. Datalogging, three user-programmable alarm/function relays plus a built-in interrupt timer are also standard.

As an option, three loop-powered 4-20mA transducers can be included, each of which is user programmable to provide isolated signals for Output Voltage, Output Current, Input Voltage and Half-Cell Voltage.

The controller is available housed in painted steel, stainless steel or GRP enclosures, or can be supplied as a PCB or mounting plate assembly. The controller includes GDT and MOV protection against lightning and other induced surges.

By default, the two-line alphanumeric LCD displays 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 by using the keypad and rotary control know, it is possible to set up other parameters, such as low current and high current alarms, auxiliary input mode and the interrupt timer.

Operation:

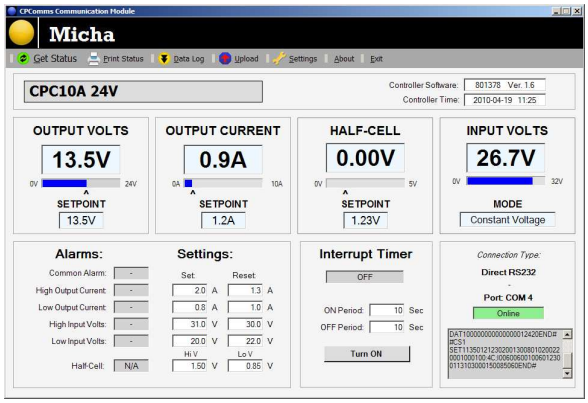
The CPC10A is capable of operating with any suitable DC power source. High speed pulse-width-modulated (PWM) switching technology is used to obtain high efficiency conversion. The CPC10A can operate in one of three modes: constant voltage, constant current and half-cell voltage control, with automatic 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. **Note**: These units can not be powered from a DC-DC isolating module due to the high current switching peaks.

Communications and Data Logging:

The CPC10A can be accessed either through the USB port when connected to a PC or laptop, or via the RS232/485 port. 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.

Check the Micha website for available communication software.



Main Specifications:

Input Voltage Range:	12V System: 10V to 16V : 24V Systems: 20V to 32V Positive Common Only	
Output Current:	0 to 10A	*(Adjustable in 0.1A steps)*
Output Voltage:	0V to VIn–0.5V	*(Adjustable in 0.1V steps)*
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 Common Alarm	System Normal System (Output) Disabled Auxiliary Input Active
Interrupt Timer settings:	On: 1 to 9,999 seconds	Off: 1 to 9,999 seconds
4-20mA Transducers	Loop voltage: 10VDC to 24VDC, maximum burden at 24V approx.. 560R	
Operating Temperature range:	-10°C to +58°C	

Specification liable to change.

Enclosure, mounting plate and kit options:

The CPC10A can be supplied as a pcb assembly with fitting kit for fixing onto a customer's own mounting plate which should be suitably machined as it acts to dissipate heat from the switching transistors. Details available on request.

Supplied in Steel Mounting Plate 250(H) x 250(W) or 250(H) x 350(W)

Description	250 x 250 Part Number:	250 x 350 Part Number:
CPC10A 12V RS232	102 712	102 713
CPC10A 12V RS485	102 722	102 723
CPC10A 24V RS232	102 812	102 813
CPC10A 24V RS485	102 822	102 823
CPC10A 12V RS232 with 3 x 4-20mA	*not available*	102 718
CPC10A 12V RS485 with 3 x 4-20mA	*not available*	102 728
CPC10A 24V RS232 with 3 x 4-20mA	*not available*	102 818
CPC10A 24V RS485 with 3 x 4-20mA	*not available*	102 828

Supplied in Painted Steel Enclosure 300(H) x 300(W) x 150(D) or 300(H) x 400(W) x 150(D) incl. cable glands:

Description	300 x 300 Part Number:	300 x 400 Part Number:
CPC10A 12V RS232	102 714	102 715
CPC10A 12V RS485	102 724	102 725
CPC10A 24V RS232	102 814	102 815
CPC10A 24V RS485	102 824	102 825
CPC10A 12V RS232 with 3 x 4-20mA	*not available*	102 719
CPC10A 12V RS485 with 3 x 4-20mA	*not available*	102 729
CPC10A 24V RS232 with 3 x 4-20mA	*not available*	102 819
CPC10A 24V RS485 with 3 x 4-20mA	*not available*	102 829

Supplied in Painted Steel Enclosure 500(H) x 400(W) x 150(D) or 530(H) x 430(W) x 200(D) GRP enclosure. All terminals brought out to DIN-rail terminals with MCBs on input and output, polyamide cable glands:

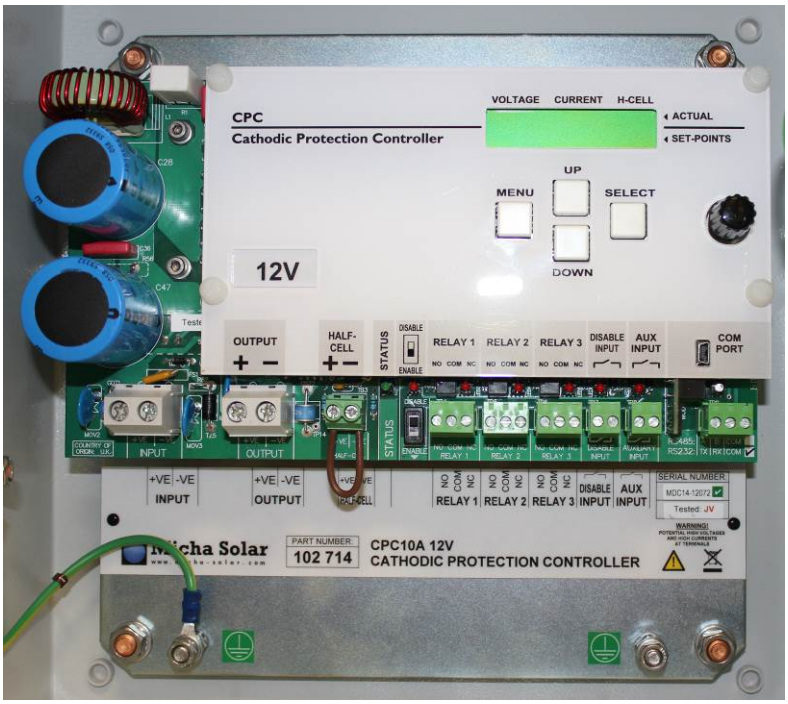
Description	Painted Steel. Part Number:	GRP Part Number:
CPC10A 12V RS232	102 716	102 717
CPC10A 12V RS232 with 3 x 4-20mA	102 720	102 721
CPC10A 12V RS485	102 726	102 727
CPC10A 12V RS485 with 3 x 4-20mA	102 730	102 731
CPC10A 24V RS232	102 816	102 817
CPC10A 24V RS232 with 3 x 4-20mA	102 820	102 821
CPC10A 24V RS485	102 826	102 827
CPC10A 24V RS485 with 3 x 4-20mA	102 830	102 831

Also available in Stainless Steel 304 or 316L and other sizes to order.

Terminal Cable Sizes:

Description	PCB Assembly Terminal	DIN-rail Terminal
Power In / Power Out	10.0mm² max	M8 stud
Half-Cell	4.0mm² max	6.0mm² max
All other terminals	2.5mm² max	2.5mm² max

Specification liable to change.



CPC10A on 300 x 300 Steel Enclosure

CPC10A in 500 x 400 Steel Enclosure

Specification liable to change.