

**Spare Component Parts for CPCx, CPC V1 and CPC V2 (25A and 50A)**

General Notes:

Where at all possible, please quote the component Serial Number when ordering replacement PCB's as this allows the positive identification of the assembly. Alternatively, the main controller SN can be provided.

Micha serial numbers take the form **MDCyy-nnnnn**, where 'yy' is the year of manufacture, and 'nnnnn' is a 5-digit sequential number.

Control boards will be supplied with the latest version of software available. If a specific version is required, e.g. "802014 V1.2", this should be specified at the time of enquiry or order.

Refer to the individual datasheets for details of each PCB assembly.

| CPCx 25A and CPCx 50A |   |           | Manufactured: 2003 - 2007 |                          |
|-----------------------|---|-----------|---------------------------|--------------------------|
| PN                    | Description   | Qty (25A) | Qty (50A)                 | Software                 |
| 400 960               | CPCx Control PCB Assembly (Voltage to be specified) | 1         | 1                         | 801052<br>(all versions) |
| 400 946               | CPCx 25A Power PCB Assembly                         | 1         | 2                         |                          |
| 400 838               | CPCx Sensor PCB Assembly                            | 1         | 1                         |                          |
| 600 441               | CPCx Protection Diode Assembly                      | 1 or 2    | 1 or 2                    |                          |
| 001146                | MCB ABB S200 1-pole Type-C 32A                      | 2         |                           |                          |
| 001150                | MCB ABB S200 1-pole Type-C 63A                      |           | 2                         |                          |

Note: System Voltage **must** be specified when ordering PN 400960



*Above: CPCx 50A*

*Note: Early versions had a single Zener diode block (PN501267), later versions had two.*

We can no longer guarantee availability of matching parts for the CPCx range but will do our best to supply equivalent parts. We recommend that existing installations be upgraded to the latest version of CP Controllers.

Version 1 of the **CPC25A** and **CPC50A** range was introduced in 2007 and included a built-in RS232 9-way D-type port.

| CPC25A and CPC50A (V1) |  |           | Manufactured: 2007 - 2013 |                          |
|------------------------|--|-----------|---------------------------|--------------------------|
| PN                     | Description                              | Qty (25A) | Qty (50A)                 | Software                 |
| 401 307                | CPC25/50A 12-24V Control PCB Assembly    | 1         | 1                         | 801378<br>(all versions) |
| 401 308                | CPC25/50A 24-48V Control PCB Assembly    | 1         | 1                         |                          |
| 401 370                | CPC25/50A Sensor PCB Assembly            | 1         | 1                         |                          |
| 401 313                | CPC25/50A Protection PCB Assembly        | 1         | 1                         |                          |
| 401 311                | CPC25A Power PCB Assembly                | 1         | 2                         |                          |
| 600 615                | CPC Protection Dual Zener Diode Assembly | 1         | 1                         |                          |
| 001146                 | MCB ABB S200 1-pole Type-C 32A           | 2         |                           |                          |
| 001150                 | MCB ABB S200 1-pole Type-C 63A           |           | 2                         |                          |

Note: PN 401307 supplied with 12V systems but can be used in 24V system  
 PN 401308 supplied as standard for both 24V and 48V systems



*Above: Typical CPC50A V1  
 Note: RS232 port (9-pin D-Type) included as standard.*

**CPC25A and CPC50A V2**

Manufactured: 2014 -

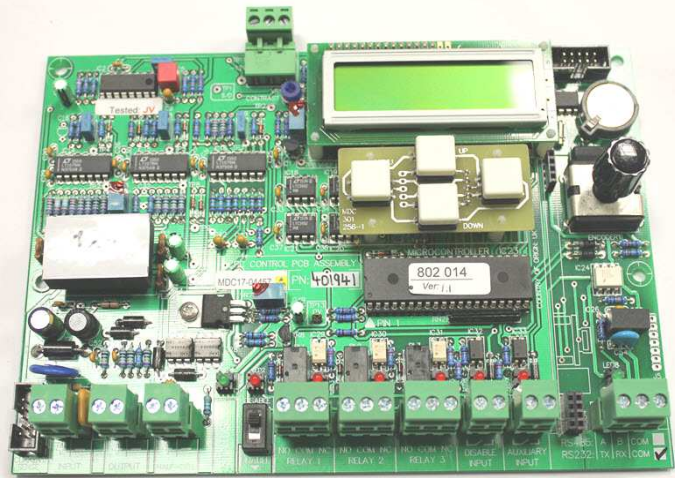
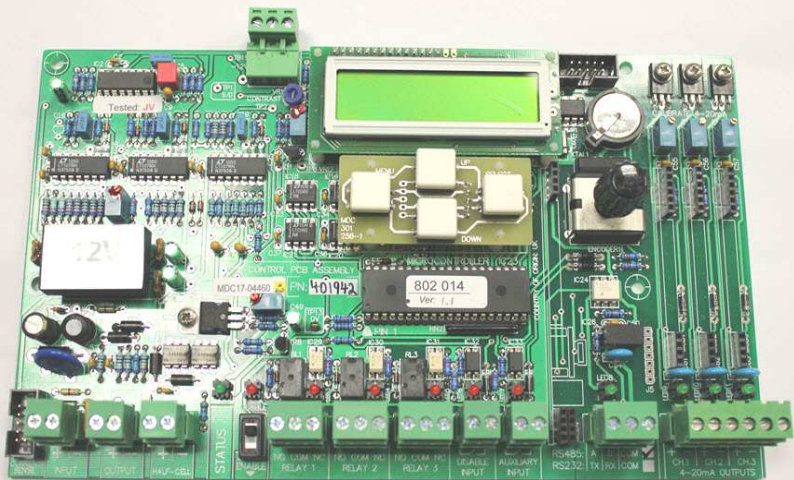

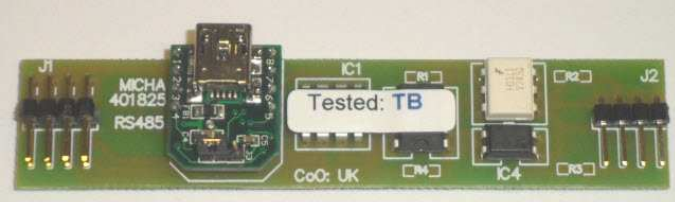
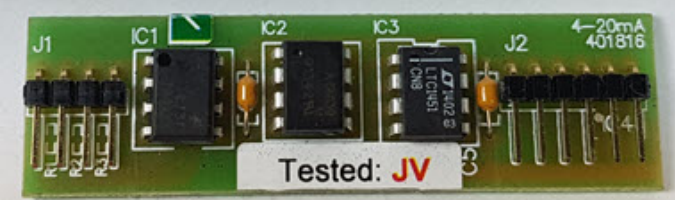
Version 2 of the CPC range was introduced in 2014. The design was changed to include plug-in options to offer the choice of either RS232 and USB, or RS485 and USB, communication modules. A separate control base PCB was also designed to allow three optional 4-20mA transducers to be fitted

Replacement PCB assemblies can be ordered either on their own, or as a combined set to include the different options. The control base boards are system voltage dependent, the plug-in options are not.

| PN      | Description  | Qty (25A) | Qty (50A) | Software                 |
|---------|--|-----------|-----------|--------------------------|
| 401 941 | PCBA CPC25/50A <b>12V</b> Control V2 Base              | 1         | 1         | 802014<br>(all versions) |
| 401 942 | PCBA CPC25/50A <b>12V</b> Control & Transducer V2 Base | 1         | 1         |                          |
| 402 016 | PCBA CPC25/50A <b>24V</b> Control V2 Base              | 1         | 1         |                          |
| 402 018 | PCBA CPC25/50A <b>24V</b> Control & Transducer V2 Base | 1         | 1         |                          |
| 401 972 | PCBA CPC25/50A <b>36V</b> Control V2 Base              | 1         | 1         |                          |
| 402 017 | PCBA CPC25/50A <b>48V</b> Control V2 Base              | 1         | 1         |                          |
| 402 019 | PCBA CPC25/50A <b>48V</b> Control & Transducer V2 Base | 1         | 1         |                          |
| 401 824 | USB/RS232 Module                                       | 1         |           |                          |
| 401 825 | USB/RS485 Module                                       |           |           |                          |
| 401 816 | 4-20mA Module  | 3         |           |                          |
| 401 370 | CPC25/50A Sensor PCB Assembly                          | 1         | 1         |                          |
| 401 313 | CPC25/50A Protection PCB Assembly                      | 1         | 1         |                          |
| 401 311 | CPC25A Power PCB Assembly                              | 1         | 2         |                          |
| 600 615 | CPC Protection Dual Zener Diode Assembly               | 1         | 1         |                          |
| 001146  | MCB ABB S200 1-pole Type-C 32A                         | 2         |           |                          |
| 001150  | MCB ABB S200 1-pole Type-C 63A                         |           | 2         |                          |

| Set PN  | Sets of Boards<br>Description of Set                | PCB Assemblies in Set |         |         |             |
|---------|---|-----------------------|---------|---------|-------------|
|         |   | Base                  | RS232   | RS485   | 4-20mA      |
| 401 901 | PCBA CPC25/50A <b>12V</b> Control V2 RS232          | 401 941               | 401 824 | -       | -           |
| 401 902 | PCBA CPC25/50A <b>12V</b> Control V2 RS232 & 4-20mA | 401 942               | 401 824 | -       | 3 x 401 816 |
| 401 903 | PCBA CPC25/50A <b>12V</b> Control V2 RS485          | 401 941               | -       | 401 825 | -           |
| 401 904 | PCBA CPC25/50A <b>12V</b> Control V2 RS485 & 4-20mA | 401 942               | -       | 401 825 | 3 x 401 816 |
| 402 008 | PCBA CPC25/50A <b>24V</b> Control V2 RS232          | 402 016               | 401 824 | -       | -           |
| 402 010 | PCBA CPC25/50A <b>24V</b> Control V2 RS232 & 4-20mA | 402 018               | 401 824 | -       | 3 x 401 816 |
| 402 012 | PCBA CPC25/50A <b>24V</b> Control V2 RS485          | 402 016               | -       | 401 825 | -           |
| 402 014 | PCBA CPC25/50A <b>24V</b> Control V2 RS485 & 4-20mA | 402 018               | -       | 401 825 | 3 x 401 816 |
| 402 009 | PCBA CPC25/50A <b>48V</b> Control V2 RS232          | 402 017               | 401 824 | -       | -           |
| 402 011 | PCBA CPC25/50A <b>48V</b> Control V2 RS232 & 4-20mA | 402 019               | 401 824 | -       | 3 x 401 816 |
| 402 013 | PCBA CPC25/50A <b>48V</b> Control V2 RS485          | 402 017               | -       | 401 825 | -           |
| 402 015 | PCBA CPC25/50A <b>48V</b> Control V2 RS485 & 4-20mA | 402 019               | -       | 401 825 | 3 x 401 816 |

**CPC V2 - PCB Assembly Identification**

|   |  |
|---|--|
|    | <p><b>Base PCBA</b></p> <p>401 941<br/>402 016<br/>401 972<br/>402 017</p> |
|   | <p><b>Base PCBA</b></p> <p>401 942<br/>402 018<br/>402 019</p>             |
|  | <p><b>RS232 Module</b></p> <p>401 824</p>                                  |
|  | <p><b>RS485 Module</b></p> <p>401 825</p>                                  |
|  | <p><b>4-20mA Module</b></p> <p>401 816</p>                                 |



Above: CPC25A V2 with 3 x 4-20mA Transducer option in Painted Steel enclosure.