

DATA SHEET



The CARTEK Power Distribution Panel is a fully integrated, fully electronic solution to power distribution in race and rally cars. Designed to replace 16 Fuses, Relays and Switches as well as a variety of control systems, these units therefore greatly simplify the wiring, reducing build time, saving weight and maximising reliability.

The Power Distribution Panel takes +12V power directly from the Battery then distributes this to all of the electrical systems around the car. All 16 power outputs from the Power Distribution Panel are controlled from the front panel Pushbuttons or from external switches and inputs. All 16 Power Outputs are fully protected with 7 selectable current settings thereby completely removing the need for fuses or circuit breakers. The Function of each Channel is also selectable from a choice of 8 different options.

FEATURES

- 16 User Configurable Channels (no Laptop required)
- Selectable current settings of 0, 5, 10 or 15 Amps. Combine two channels together for 20, 25 or 30 Amps
- Selectable Functions such as
 - Momentary action (Starter Motor, Washer Pump etc)
 - Latching (with memory)
 - Latching (without memory)
 - Latching with Time Delay (Heated Screen)
 - Flashing (Indicators etc)
 - Toggling (Headlights High Beam/Low Beam)
 - 0v Momentary action (use as ordinary switch for ECU Map etc)
- Over Current and Short Circuit Protection - no Fuses or Relays needed.
- Multi coloured Label Sheet included for full customisation.
- 2 Back-light settings as standard.
- 16 Momentary Switch Inputs - allowing any channel to be operated by an additional switch or the Cartek Wireless Control System.
- 16 ECU Inputs - allows the ECU to turn on channels such as Fuel Pumps.
- 4 Dedicated function inputs - Flash Input for Lights, Wash Input for Wipers, Wiper Park position etc.

PARTS LIST

| PART NO | DESCRIPTION |
|-----------|--------------------------------------|
| CK-PDP-16 | Power Distribution Panel (Unit Only) |
| CK-PDP-LF | PDP-16 Connector and Crimp Set |
| CK-PDP-CC | PDP-16 Connector and Flying Leads |

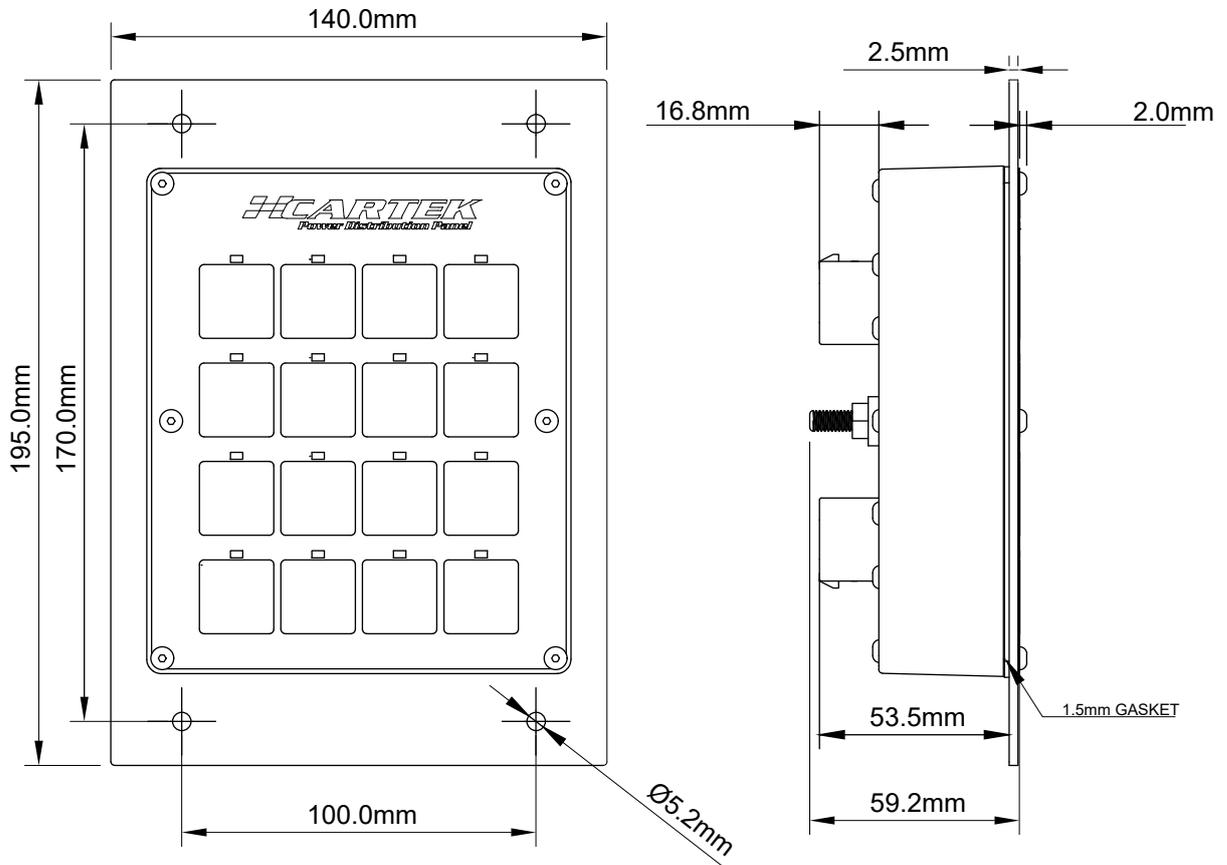
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PIN OUT

| Pin no: | Connector A (BLACK) | Pin no: | Connector B (BLUE) |
|---------|---|---------|--------------------------------|
| 1 | Channel B2 Power Output | 35 | Channel F2 Power Output |
| 2 | Channel B2 Switch Input/Output | 34 | Channel F2 Switch Input/Output |
| 3 | Channel B2 ECU Input | 33 | Channel F2 ECU Input |
| 4 | Channel B1 Power Output | 32 | Channel F1 Power Output |
| 5 | Channel B1 Switch Input/Output | 31 | Channel F1 Switch Input/Output |
| 6 | Channel B1 ECU Input | 30 | Channel F1 ECU Input |
| 7 | Channel A2 ECU Input | 29 | Channel E2 ECU Input |
| 8 | Channel A2 Switch Input/Output | 28 | Channel E2 Switch Input/Output |
| 9 | Channel A2 Power Output | 27 | Channel E2 Power Output |
| 10 | Channel A1 ECU Input | 26 | Channel E1 ECU Input |
| 11 | Channel A1 Switch Input/Output | 25 | Channel E1 Switch Input/Output |
| 12 | Channel A1 Power Output | 24 | Channel E1 Power Output |
| 13 | N/C | 23 | N/C |
| 14 | N/C | 22 | N/C |
| 15 | N/C | 21 | N/C |
| 16 | N/C | 20 | Back-light (Low) Power Input |
| 17 | Battery Isolator XR Ignition Signal Input | 19 | XR Signal Input |
| 18 | Ground | 18 | Ground |
| 19 | Wiper Park Position Input | 17 | Back-light (Hi) Power Input |
| 20 | N/C | 16 | N/C |
| 21 | Ground | 15 | N/C |
| 22 | N/C | 14 | N/C |
| 23 | N/C | 13 | N/C |
| 24 | Channel C1 Power Output | 12 | Channel G1 Power Output |
| 25 | Channel C1 Switch Input/Output | 11 | Channel G1 Switch Input/Output |
| 26 | Channel C1 ECU Input | 10 | Channel G1 ECU Input |
| 27 | Channel C2 Power Output | 9 | Channel G2 Power Output |
| 28 | Channel C2 Switch Input/Output | 8 | Channel G2 Switch Input/Output |
| 29 | Channel C2 ECU Input | 7 | Channel G2 ECU Input |
| 30 | Channel D1 ECU Input | 6 | Channel H1 ECU Input |
| 31 | Channel D1 Switch Input/Output | 5 | Channel H1 Switch Input/Output |
| 32 | Channel D1 Power Output | 4 | Channel H1 Power Output |
| 33 | Channel D2 ECU Input | 3 | Channel H2 ECU Input |
| 34 | Channel D2 Switch Input/Output | 2 | Channel H2 Switch Input/Output |
| 35 | Channel D2 Power Output | 1 | Channel H2 Power Output |

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DIMENSIONS



TECHNICAL DETAILS

| | |
|--|---|
| Size: | L = 195mm, W = 140mm. |
| Weight: | 600g. |
| Battery positive terminal: | M6 stud. |
| Mating Connectors: | AMPSEAL 776164-1 (Black) AMPSEAL 776164-5 (Blue) |
| Total Output Current | 160A Continuous |
| Outputs | 16 |
| Switch Inputs/Outputs | 16 |
| ECU Inputs | 16 |
| Battery Isolator XR Ignition Input | 2 |
| Dedicated Wiper Park Position Input | 1 |
| Operating temperature: | -10°C - +85°C. |
| Storage temperature: | -40°C - +125°C |