

**Box Contents**

- 1 x C Series Driver including:
  - 1 x Loop connectors (2x for C5-2, C7-2)
  - 1 x DC connector
  - 2 x Input connectors
  - 1 x 100V line connector
  - 1 x Line out connector
  - 2 x 2mm steel 1U rack mount brackets
- Also includes:
  - 1 x C Series quick start guide
  - 1 x Power cable (region specific)
  - 1 x Induction Loop Sign
  - 4 x self adhesive feet







**This symbol is used to alert the user to important operating or maintenance instructions.**



**The Lightning bolt triangle is used to alert the user to the risk of electric shock.**

**1. SAFETY**

1. It is important to read these instructions, and to follow them.
2. Keep this quick start guide in an accessible place.
3. Clean only with a dry cloth. Cleaning fluids may affect the equipment.
4.  Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
5. Do not install this equipment near any heat sources such as radiators, heating vents or other apparatus that produces heat.
6.  **WARNING – THIS APPARATUS MUST BE EARTHED / GROUNDED.**
7. Only power cords with the correct power connector may be used to maintain safety. Cables incorporating the UK 13A fused plug, Schuko with earthing contacts and UL approved “grounding type” are acceptable. These must be plugged into power outlets which provide a protective earth.
8. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as a power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to any rain or moisture, does not operate normally or has been dropped.
9.  **WARNING – To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.**
10.  **Warning: Connection to a 100V line system may involve the risk of electric shock and therefore must be carried out by an instructed or skilled person.**

**CAUTION****RISK OF ELECTRIC SHOCK  
DO NOT OPEN**

**TO PREVENT ELECTRIC SHOCK DO NOT REMOVE THE COVER. THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL**

**2. TOOLS AND EQUIPMENT**

Small hand tools including a wire stripper, small flat blade and posi screwdrivers will be required.

A magnetic field strength meter, Loopworks Measure App & R1 Receiver, or at minimum an induction loop receiver is vital to check that the loop system is providing the desired level of performance.



## 6. NETWORK CONNECTION (OPTION)

Where fitted C Series drivers feature a web interface that can be viewed in a web browser. Although optimised for the Chrome browser, any browser can be used to view the interface. The web interface is used to monitor and adjust the driver. You will be asked for the User Name and Password for the driver as a deterrent to unauthorised parties. These values are case sensitive and need to be entered once per session to access the driver.

**User Name = superadmin, netadmin, audioadmin**  
**Passwords = ampetronic (default)**

Four levels of access are available:

1. superadmin - allows access to all settings
2. netadmin - access the network settings page only
3. audioadmin - access the audio settings pages only
4. no login - allows access to status page

## 7. TROUBLESHOOTING

### OUTPUT A / B OPEN CIRCUIT:

The driver has detected that the loop connected to A / B out is too high impedance.

### HEATSINK TOO HOT PLS SWITCH OFF:

The driver heatsink has reached a critical temperature and the driver must be switched off.

The following error messages all indicate an error in the internal circuitry of the driver. Please contact Ampetronic technical support if any of these errors are seen, quoting the error message text.

**OUT A / B IDLE OVERCURRENT**

**OUT A / B FUNC TEST HIGH OVERCURRENT**

**OUT A / B FUNC TEST LOOPS CROSSWIRED**

These error messages indicate a possible error with the loop or the connections to the loop:

**LOOP A / B R < 200mR FIX AND RESTART:** The driver measured < 200mR for the loop impedance. This is too low for the driver and must be fixed before the driver will finish the start-up diagnostics. Switch off, fix the fault and switch on again.

**LOOP A / B > 10R LOOP COULD CLIP:** The loop is not open circuit but has a resistance of > 10R. This is too high and the driver will clip on output peaks. This is a warning and the driver will continue after 5 seconds.

**CHANNEL A / B OPEN CIRCUIT:** This message is displayed if the loop is disconnected whilst the driver is operating (e.g. if a carpet fitter cuts the loop). The message is displayed on the front panel for 5 seconds and on the web interface.

These are information messages and do not indicate an error:

**DIAGNOSTICS IN PROGRESS:** This message is displayed on the front panel whilst the start-up tests are being performed.

**New IP Address XXX.XXX.XXX.XXX** A new Ethernet address has been assigned to the driver. This can occur when an Ethernet cable is plugged into the driver or the DHCP system re-assigns a new IP address.

These messages appear in the status menu when the associated error is present:

**Power Limit - derated:** The driver is overloaded and the drive current has been reduced

**Loop A open circuit:** The driver has detected an open circuit on loop A.

**Loop B open circuit:** The driver has detected an open circuit on loop B.

**Temp Limit - derated:** The internal heatsink is too hot and the driver current on both channels has been reduced.

**Temp Limit - muted:** The internal heat sink has reached an unacceptable level and outputs have been turned off.

