

# C Series

Networkable hearing loop drivers



- Performance, consistency and certainty of results
- Intuitive digital interface
- Fast, accurate setup and adjustment

The C Series hearing loop drivers from Ampetronic marks a substantial development in assistive listening technology.

- Performance, consistency and certainty of results, from affordable entry level units to flagship, market leading, power systems
- Simple digital interface for accurate setup and adjustment
- Low running and maintenance costs

## Network connectivity

- Remote control monitoring and commissioning
- Fault condition alerts via email, SNMP or Telnet
- Integrate with building management systems
- Loop resistance and inductance measurement
- Configurable metal loss compensation including HF boost option for un-even loss scenarios
- Dante option with AES67

For more information on hearing loop design, meeting regulatory standards or hearing loop installations contact our friendly and knowledgeable team on: +44 (0) 1636 610062 or email: [sales@ampetronic.com](mailto:sales@ampetronic.com)

## Ampetronic™ C Series drivers:

Energy efficient amplifiers in the following options:

### Perimeter loop drivers

- **C5-1** – 5A<sub>RMS</sub> output, single channel, 20V<sub>RMS</sub>
- **C7-1** – 7A<sub>RMS</sub> output, single channel, 20V<sub>RMS</sub>
- **C10-1** – 10A<sub>RMS</sub> output, single channel, 33.9V<sub>RMS</sub>

### MultiLoop™ drivers

- **C5-2** – 5A<sub>RMS</sub> output, two channels, 20V<sub>RMS</sub>
- **C7-2** – 7A<sub>RMS</sub> output, two channels, 20V<sub>RMS</sub>
- **C10-2** – 10A<sub>RMS</sub> output, two channels, 33.9V<sub>RMS</sub>
- **C14-2** – 14A<sub>RMS</sub> output, two channels, 48.1V<sub>RMS</sub>

- Simple digital interface for accurate adjustment
- Network and stand-alone options
- Built-in test tones
- Compatible with Loopworks Measure LoopLink for direct and automated driver control
- Clear indicators and system diagnostics
- Compact 1U rack mount unit with internal power supply
- Optimised for speech frequencies with unmatched intelligibility and capable of high quality musical reproduction
- Industry standard Phoenix connectors
- Data compliant with IEC 62489-1 Standard
- 100V line input

**AMPETRONIC**



**Input 1 and 2** 3 way 3.5mm euroblock screw terminal input  
Balanced mic/line selectable. Switchable 250Hz low cut filter and priority input option.

**Microphone / Line** Microphone specification; 200 - 600Ω,  
Selectable 24V phantom power on microphone only

**100V Line** 2 way 5mm euroblock screw terminal (supplied)

**Dante** RJ45 Ethernet input (100MB/s), AES67 compliant  
(optional-input 3)

**Loop Output Drive Voltage** C5/7 - 20V<sub>RMS</sub>  
C10 - 33.9V<sub>RMS</sub>  
C14 - 48.1V<sub>RMS</sub>  
at maximum output current per channel

**Loop Output Drive Current** C5 - 5A<sub>RMS</sub>  
C7 - 7A<sub>RMS</sub>  
C10 - 10A<sub>RMS</sub>  
C14 - 14A<sub>RMS</sub>  
All up to 60s continuous 1kHz sine.  
See datasheet for full technical specifications.

**Loop Connectors** 4 way 5mm euroblock screw terminal (supplied) for  
each output, for star-quad configured feed cables

**DC Output** 2 way 3.5mm euroblock screw terminal Re-settable,  
fuse protected 12V 0.1A. Controllable to reflect amplifier  
status (network models only)

**Line Output** 3 way 3.5mm euroblock screw terminal (supplied)  
post AGC balanced output

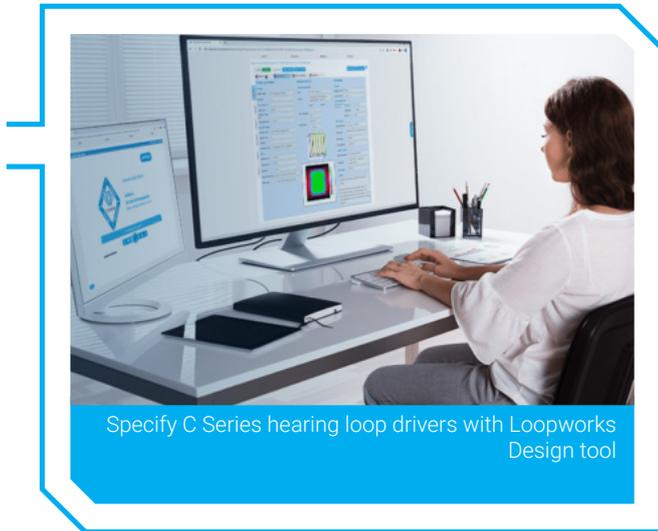
**Status Relay** 2 way 3.5mm euroblock screw terminal (supplied).  
(C10/14 only) Normally closed isolated relay contacts, open in fault  
conditions.

**Automatic Gain Control** The AGC is optimised for speech. Dynamic range  
>36dB

**Metal Loss Compensation** Dual slope configurable MLC up to 4dB per octave

**Phase Shift** User selectable (network models only) at 0° or 90°  
between outputs

**Size** Full width 1U 19" rack mount.  
C5/C7: Width 430mm Depth 190mm Height 44mm  
C10/C14: Width 430mm Depth 305mm Height 44mm



UP39802-7

### Standards compliance

These products are designed to form part of a system that can meet all requirements of the international loop performance standard IEC60118-4, and the relevant parts of IEC TR 63079. To fully meet requirements of these standards, correct design, installation, commissioning and maintenance are required.

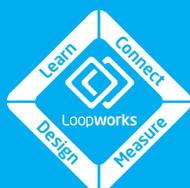
All data has been compiled in accordance with IEC62489-1, the international reporting standard for audio frequency induction loop equipment. Specifications should only be compared if compliant to this standard.

Drivers are marked with UKCA, CE mark & Regulatory Compliance Mark (RCM) to comply with RED to all relevant safety and EMC standards plus MET Labs safety approved & demonstrated to comply with FCC part 15 for sale in North America.



- Installation accessories
- Signage
- Testing and measurement systems
- System design support
- Training and continuous personal development (CPD)
- Loopworks™ design and specification tools

Providing a genuine benefit.



To find out more about the C Series talk  
with our experts on:  
+44 (0) 1636 610062  
or email: sales@ampetronic.com

**AMPETRONIC**®

Listen to the difference  
Unit 2, Trentside Business  
Village, Farndon Road,  
Newark, NG24 4XB  
United Kingdom

[www.ampetronic.com](http://www.ampetronic.com)