



### Configuration:

C7-2 C-Series MultiLoop Drive 7A

C7-2N C-Series MultiLoop Drive 7A Networked

C7-2D C-Series MultiLoop Drive 7A Dante

### Product Overview:

The C7-2 Series hearing loop drivers from Ampetronic mark a substantial development in assistive listening technology. C Series units feature digital signal processing and networking functionality, and enable fast, accurate setup and adjustment via a very simple and easy to use user interface and built-in test tones.

Available in Non-Networked (C7-2), Networked (C7-2N), and Dante (C7-2D) versions.

Engineered to offer the high end performance, consistency and certainty of results associated with top of the range hearing loop drivers, all for the price of a mid-range amplifier. Class 'D' drivers built into the C Series ensures low running and maintenance costs.

Network and Dante versions enable installers, technicians and facilities managers to remotely control the driver and monitor its condition status along with resistance and induction measurements. Fault condition alerts via email or Telnet provide reassurance that an operator will be informed of any issues with performance delivery.

The C7-2 features two 7 Amps RMS current loop outputs, plus ample voltage headroom, making it suitable for a wide range of applications. Installation can be performed with total confidence; unique, multi-stage filtering ensures compatibility with other systems and global EMC regulations.

### Highlights:

- Simple digital interface for accurate adjustment
- Dual outputs featuring accurate and stable 90° phase shift
- Highly energy efficient Class-D amplifiers with low heat dissipation providing low running and maintenance costs
- Networking with browser interface for remote reporting, adjustment, active status monitoring, and remote fault reporting via email or Telnet
- Built in test tones
- Compatible with Loopworks Measure LoopLink for direct and automated driver control
- AGC and dual slope configurable MLC
- Compact 1U rack mount unit with internal transformer for simple rack installation
- Optimized 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
- Dante option with AES67

### Includes:

One (1) C7-2(X) C Series MultiLoop Driver 7A  
Two (2) Loop Connectors  
One (1) DC Connector  
Two (2) Input Connectors  
One (1) 100VAC Line Connector  
One (1) Line Out Connector  
Two (2) 2mm Steel 1U Rack Mount Brackets  
One (1) C Series Quick Start Guide  
One (1) Power Cable (region specific)  
One (1) Induction Loop Sign

Four (4) Self-adhesive Feet

| Product Specification: C-Series MultiLoop Driver 7A |   |
|---|---|
| <b>Inputs</b>                                       |   |
| Power   | 120/230 VAC, 45-65 Hz, 55W  |
| Input 1 & 2   | 3 way 3.5mm euroblock screw terminal input (supplied) with a balanced microphone and line level operation, selectable via rear panel switch, Switchable 250Hz low cut filter, Priority input option (network models only)   |
| Microphone / Line                                   | Microphone specification; 200 – 600Ω, sensitivity -67dBu, Selectable 24V phantom power on microphone only, Line sensitivity -42dBu, Max line level 17dBu, Max mic level -8dBu   |
| 100V Line   | 2 way 5mm euroblock screw terminal (supplied), 100V sensitivity +7dBu   |
| Dante (optional) - Input 3                          | RJ45 Ethernet input (100MB/s), AES67 compliant, 2x channels mono summed   |
| Network (optional C5/C7)                            | RJ45 Ethernet, control and monitoring, Hosted web server, Telnet and SNMP   |
| <b>Outputs</b>                                      |   |
| Loop Output Drive Voltage                           | 20VRMS (28Vpk) at maximum output current per channel  |
| Loop Output/Drive Current                           | 7ARMS (9.9Apk) up to 60 seconds continuous 1kHz sine wave, peak >10A per channel Cont. pink noise 3.3ARMS short term peaks >10A per ch.   |
| Loop Connectors                                     | 4 way 5mm euroblock screw terminal (supplied) for each output, for twisted pair or 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 (C10/C14)                              | 2 way 3.5mm euroblock screw terminal (supplied). Normally closed isolated relay contacts, open in fault conditions. Rated load 0.5A at 125VAC, 2A at 30VDC.   |
| USB   | Firmware updates or power for wireless router (200mA max). Powering external devices may reduce power headroom for the loop, DC output and USB power should not be used simultaneously.   |
| <b>Audio System</b>                                 |   |
| Frequency Response                                  | 80Hz to 6.5kHz  |
| Distortion  | THD+N <0.3% 1kHz sine at full current   |
| Automatic Gain Control                              | The AGC is optimised for speech. Dynamic range >36dB  |
| Metal Loss Correction                               | Corrects system frequency response issues due to metal structures in a building. Gain constant at 1kHz, adjustable gain slope from 0 to 4dB per octave in 0.25dB increments. Custom 2 slope MLC allows different slopes and transition frequency to be set via the menu (network models only). This does not compensate for signal loss from metal structures which can be significant. |
| Phase Shift   | User selectable (network models only) at 0° or 90° between outputs  |
| <b>Additional Functions</b>                         |   |
| Status  | Tri-colour LED: Solid GREEN = normal operation, Flashing GREEN = sleep or standby mode, Flashing RED = error, Flashing AMBER = firmware updating  |
| <b>Physical</b>                                     |   |
| Size  | Full width 1U 19" rack mount. Width 430mm Depth 190mm Height 44mm, Depth inc. knob 190mm (C5/C7) 305mm (C10/C14)  |
| Mounting Options                                    | Freestanding 1U 19" rack mount (brackets fitted as standard), Wall mounted brackets available separately  |

| Product Specification: C-Series MultiLoop Driver 7A |  |
|---|--|
| Weight  | 3.1 kg   |
| Environment   | IP20 rated; 20 to 90% relative humidity; 0 to 35°C                   |
| Cooling   | C5,C7 Passive, C10/C14 variable speed fan, front inlet, rear exhaust |
| <b>Compliance</b>                                   |  |
| Marks and Approvals                                 | FCC, UKCA, CE, MET   |
| * Specifications subject to change without notice.  |  |