



**Configuration:**

C7-1N C Series Single Loop Networkable Driver (7.0 Amps)

**Product Overview:**

The C Series hearing loop drivers from Ampetronic mark a substantial development in assistive listening technology. Compact, elegant, and sturdy, C Series units feature digital signal processing and networking functionality. The drivers feature a simple digital user interface, enabling accurate adjustment and providing clear indicators, system diagnostics, and built-in test tones. C Series drivers are fully networkable with a Wi-Fi accessible standard browser-based control panel for remote set-up, monitoring, and email alerts.

The C7-1N features 7.0 Amps RMS current loop output, plus ample voltage headroom, making it suitable for a wide range of applications. Fast, accurate installation can be performed with total confidence; unique, multi-stage filtering ensures compatibility with other systems and global EMC regulations.

**Highlights:**

- Simple digital interface enabling accurate adjustment
- Single or dual output options. 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
- AGC and dual slope configurable MLC
- Up to 2 x 675m<sup>2</sup> Perimeter Loops area coverage
- Up to 1100m<sup>2</sup> MultiLoop™ area coverage
- 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

**Includes:**

- One (1) C7-1N C Series Single Loop Networkable Driver (7.0 Amps x 1)
- One (1) Loop Connector
- One (1) DC Connector
- Two (2) Input Connectors
- One (1) 100VAC Line 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 Single Loop Networkable Driver (7.0 Amps)	
Inputs	
Power	35/55/95W 230V AC nominal, 45-65Hz [120V option available]
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
Microphone / Line	Microphone specification; 200 - 600Ω, sensitivity -67dBu. Selectable 24V

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	phantom power on microphone only. Line sensitivity -42dBu
100V Line	2 way 5mm euroblock screw terminal (supplied) 100V sensitivity +7dBu
<b>Outputs</b>	
Loop Output Drive Voltage	20VRMS (28Vpk) at maximum output current per channel
Loop Output/Drive Current	7ARMS (10Apk) 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 star-quad configured feed cables
DC Output	2 way 3.5mm euroblock screw terminal Re-settable, fuse protected 12V 0.1A.
Line Output	3 way 3.5mm euroblock screw terminal (supplied) post AGC balanced output
<b>Audio System</b>	
Frequency Response	80Hz to 6.5kHz
Distortion	THD+N 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 (web 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
Mounting Options	Freestanding 1U 19" rack mount (brackets fitted as standard)
Weight	2.8 kg
Environment	IP20 rated; 20 to 90% relative humidity; 0 to 35°C
Cooling	Passive
<b>Compliance</b>	
Marks and Approvals	CE and ETL Listed