Protec
Fire and Security Group Ltd

C Series DSP
Hearing Loop Drivers

Induction Loop

- Networkable with remote browser interface
- Digital display & intuitive digital interface
- Highly energy efficient Class-D amplifiers with low heat dissipation
- Up to 3,300m² MultiLoop™ Low Loss area coverage
- Optimised for speech frequencies with unmatched intelligibility & capable of high quality musical reproduction
- AGC & Dual Slope MLC
- Active status monitoring & remote fault reporting via email, SNMP or Telnet
- Data compliant with: IEC 62489-1 Standard

The C Series represents the global benchmark for digital audio induction loop systems. The compact, elegant and sturdy units not only feature digital signal processing and networking functionality, but are also the most versatile and powerful solution available.

The C Series range consists of 4 class 'D' drivers (4 dual loop output models); meaning a 60%+ increase in energy efficiency over existing solutions. Drivers feature capacitive touch front panels with intuitive menus, built in test signals, and are fully networkable with a Wi-Fi accessible standard browser based control panel for remote set-up, monitoring and email alerts.

The C5-2, C7-2, C10-2 and C14-2 feature 5, 7, 10, and 14 Amps per loop output respectively plus ample voltage headroom, making it the most flexible solution on the market, suitable for a huge range of applications. The added power of the C-2 provides a solution for installations in environments containing high levels of metal, previously not possible without the use of combiners.

In another first for high-power Class D Induction Loop drivers, installation can be performed with total confidence, as unique multi-stage filtering ensures compatibility with both other system equipment and global EMC regulations. The C Series also boasts Dual slope Metal Loss Control that caters for a wide range of metal loss frequency characteristics.

Stock Codes

SP10922 - C5-2
SP10900 - C7-2
SPTBA - C10-2
SPTBA - C14-2

Technical Specification

Input 1 and 2:	3 way 3.5mm euroblock screw terminal input. Balanced Mic/line selectable. Switchable 250Hz low cut filter and priority option
Microphone/Line:	Microphone specification; 200-600Ω Selectable 24V phantom power on mic only
100V Line:	2 way 5mm euroblock screw terminal (supplied)
Dante: (optional input 3)	RJ45 Ethernet input (100MB/s), AES67 compliant
Loop Output Drive Voltage:	C5/7 - 20V_{RMS} C10 - 33.9V_{RMS} C14 - 48.1V_{RMS} at maximum output current per channel
Loop Output Drive Current:	C5 - 5A_{RMS} C7 - 7A_{RMS} C10 - 10A_{RMS} C14 - 14A_{RMS} All up to 60s Continuous 1kHZ sine.
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: (C10/14 only)	2 way 3.5mm euroblock screw terminal (supplied) 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) 0º or 90º between outputs

Physical Specification

Dimensions	Full width 1U 19" rack mount. C5/C7: 430(W) x 190(D) 44(H) mm C10/C14: 430(W) x 305(D) 44(H) mm
Weight	C5-2 - 2.8kg C7-2 - 3.1kg C10-2 - 5.2kg C14-2 - 6.7kg

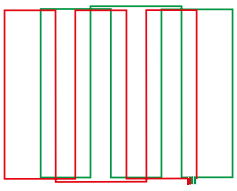
MultiLoop™ System Design Considerations

MultiLoop Drivers can be used for different types of loop layout. You will need a MultiLoop system design for the loop layout.

Low Loss Control MultiLoops

Multiple loop segments in two patterns each driven by its own output channel.

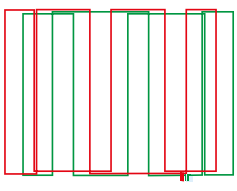
Best for optimum even area coverage across any area. Suitable for large areas and buildings with metal construction.



Low Spill MultiLoops

Similar in design to Low Loss MultiLoop but with a more complex pattern that requires more cable.

Suitable for applications where loops are close together or where confidentiality is an issue. Low Spill MultiLoops require careful and precise design.



Materials and Images, courtesy of Ampetronic

Company Policy is one of continuous improvement, we reserve the right to change specification without prior notice

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