



# DL50/K

## DOMESTIC AUDIO-FREQUENCY INDUCTION LOOP AMPLIFIER KIT

- ▶ Ideal for bedrooms, living rooms, TV lounges, studies and other domestic applications
- ▶ Kit includes:-
  - 1 x DL50 induction loop amplifier
  - 1 x Plug-top power supply
  - 1 x 33m reel of induction loop cable
  - 1 x SCART-to-double-phono audio lead
  - 1 x Microphone c/w mounting attachments
  - 1 x Easy-to-follow installation manual
- ▶ Attractively-designed amplifier provides max. square room coverage of 50m<sup>2</sup> (7m x 7m) or max. rectangular room coverage of up to 100m<sup>2</sup> (5m x 20m)\*
- ▶ Connections provided for two 3.5mm electret microphones (only one mic. is provided in the DL50/K kit) and one SCART-to-double-phono audio lead (other leads are available for purchase if required)
- ▶ Simple to adjust, tamper-resistant drive, level, tone and mic. priority controls
- ▶ Input peak, output current, signal present and power on LEDs
- ▶ Headphone socket aids system set-up
- ▶ Alert tone input for doorbells, fire alarms, security systems, etc.
- ▶ Automatic compressor limiter
- ▶ Full 2Ω drive current capability for increased coverage at higher frequencies
- ▶ Fully compliant with EN60118-4 (formerly BS6083) and BS7594:1993

\* Longer lengths of loop cable may be required for rectangular rooms

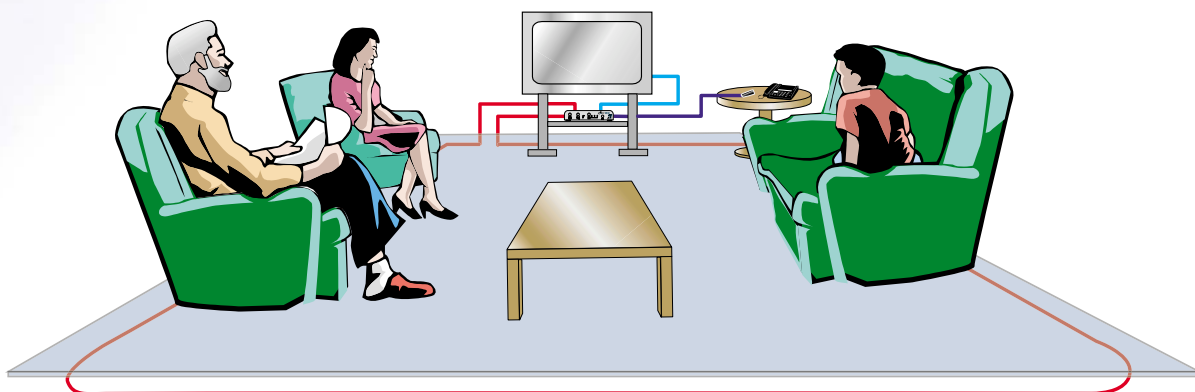


SigNET's new DL50/K domestic loop amplifier kit includes everything you need to create a high quality stand-alone induction loop system for a bedroom, living room, TV lounge or study.

Carefully designed to sit discreetly alongside all types of audio-visual equipment, the amplifier features one set of phono inputs (for direct connection to television sets, etc), two microphone inputs and an alert input (for connection to fire alarms, doorbells, etc).

Screwdriver-adjustable drive, level, mix and tone controls are provided, allowing the system to be tailored to suit the exact requirements of any room, with installation further aided by the provision of a headphone socket, output current meter, input peak LED and an easy-to-follow installation guide.

### A typical DL50/K audio-frequency induction loop system:-



**PDA**  
Range

**SigNET**



DL50/K kit contents ▲

### POWER REQUIREMENTS

<b>Voltage</b>	12V a.c. 1.5A max (via plug top power supply supplied)
<b>Power consumption</b>	<18VA

### INPUTS

#### MICROPHONE

<b>Connector type</b>	2 x 3.5mm mono jack
<b>Input Impedance</b>	2K $\Omega$
<b>Sensitivity</b>	2-5mV
<b>Phantom</b>	+8V

#### LINE

<b>Connector type</b>	2 x phono - allows the connection of one SCART to double phono lead (supplied) or similar
<b>Input impedance</b>	>4k $\Omega$

#### ALERT

Closing a volt-free switch across this input generates a pulsed tone through the loop

### OUTPUT

<b>Type</b>	Current mode
<b>Loop connector</b>	Releasable two pole friction connector
<b>Cable</b>	1mm <sup>2</sup> tri-rated cable (supplied)
<b>Loop coverage (square room)</b>	50m <sup>2</sup> max. (e.g. 7m x 7m)
<b>Loop coverage (rectangular room)</b>	Up to 100m <sup>2</sup> when shortest side of loop is no greater than 5m (e.g. 5m x 20m)
<b>Loop drive current</b>	3A peak; 1A average
<b>Loop impedance</b>	0.2 to 2 $\Omega$ @ 1kHz

### PERFORMANCE

<b>Bandwidth</b>	100Hz to 8kHz
<b>Input stage dynamic range</b>	33dB
<b>Distortion</b>	<0.5% THD

The DL50 amplifier includes an amplitude compression stage that limits overload and has a dynamically variable ratio from 1:1 to 10:1

### INDICATORS & CONTROLS

<b>LED indicators</b>	<ul style="list-style-type: none"> <li>Input signal (red)</li> <li>Loop strength meter (green to yellow to red)</li> <li>Power on (green)</li> </ul>
<b>User controls</b>	<ul style="list-style-type: none"> <li>Input signal level control</li> <li>Microphone priority control (turn clockwise or counter-clockwise for required emphasis).</li> <li>Mid-range cut and boost tone control (frequency = 1kHz; cut = -17dB; boost = +17dB)</li> <li>Loop signal (drive) control</li> <li>All user controls are adjustable using the small terminal screwdriver supplied and are recessed to avoid tampering.</li> </ul>

### DIMENSIONS & FINISH

<b>Width x Height x Depth</b>	185 mm x 40 mm x 85 mm
<b>Weight</b>	550g (amplifier only)
<b>Finish</b>	Satin black