



# PDA200E

## WALL-MOUNTING INDUCTION LOOP AMPLIFIER

The PDA200E is unlike any other induction loop amplifier.

Straightforward internal screw connectors and preset controls mean no specialist audio experience or audio connectors are required.

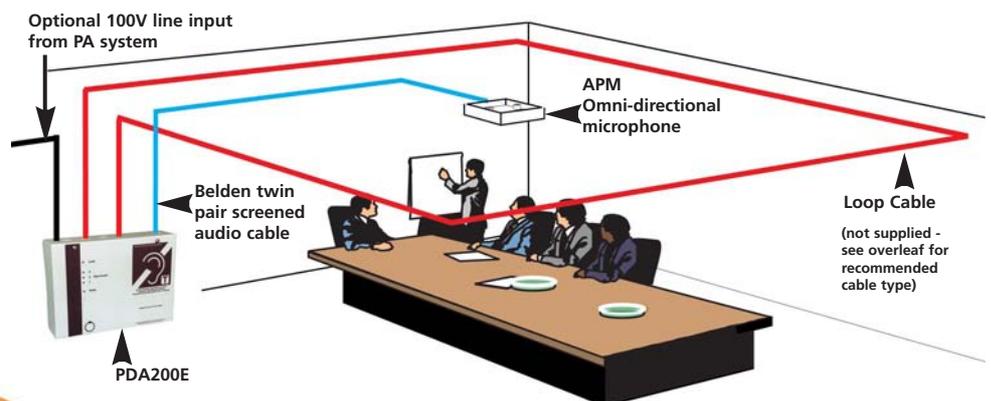
By following the simple set-up procedure, no further adjustments are necessary, allowing a top quality assistive listening system for a meeting room, lecture theatre, nursing home, church, school, TV lounge, GP surgery, hotel or shop to be set-up in its entirety by any competent electrician.

For ease of specification and installation, the PDA200E is available either on its own or in a variety of cost-effective kit formats (see overleaf for details).



- Ideal for meeting rooms, lecture theatres, shops, churches, schools, TV lounges and other small to medium sized applications
- Provides max. square room coverage of 120m<sup>2</sup> (11m x 11m) or max. rectangular room coverage of 250m<sup>2</sup> (10m x 25m)
- Straightforward internal screw connectors
- Wall-mounting metal enclosure for permanent installation
- Internal tamper-resistant drive, level and tone controls
- One balanced/unbalanced microphone input
- One balanced/unbalanced line level input (for TVs, CD players, etc)
- Alert tone switch input for doorbells, fire alarms, security systems, etc
- 100V line input for PA system connection
- External loop drive current and power on LED indicators
- Optional 'outreach plate' input extension system allows a greater variety of inputs to suit virtually any application
- Compliant with AFILS standards EN60118-4 (formerly BS6083) and BS7594 (1993)

### A typical PDA200E meeting/seminar room installation (using our AKM1 kit)





## WHAT IS AN INDUCTION LOOP SYSTEM?

Induction loop systems are mainly used to help hearing impaired people obtain maximum involvement in communications.

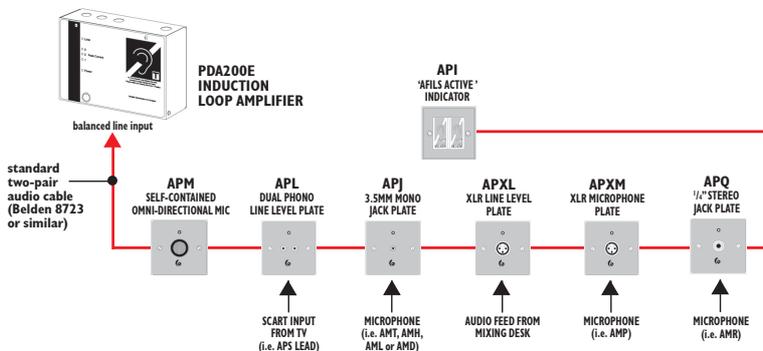
The concept behind them is quite simple. All NHS hearing aids have a 'T' position which allows them to pick up the electromagnetic field generated by a telephone's earpiece and convert it into a sound suited to an individual's specific hearing requirements. A loop system uses this same principle but generates a much larger field than that created by a telephone earpiece and radiates it around a room via a 'loop' for the benefit of any hearing impaired person(s) located within it. An induction loop system therefore comprises four main elements:- the audio source (microphone and / or music inputs), the amplifier (specially designed for the job), the loop (usually a single turn of wire) and the receiver(s) (hearing aids in the 'T' position or special loop listening devices).

The size of field required can vary depending on the application, from 1m<sup>2</sup> for ticket booths or bank counters, to in excess of 600m<sup>2</sup> for larger installations such as theatres and cinemas. The PDA200E can generate a field of up to 120m<sup>2</sup> in a square room (11m x 11m) or 250m<sup>2</sup> in a rectangular room (10m x 25m) and is therefore ideal for the vast majority of small to medium sized applications.

### 'Outreach Plate' Input Extension System

For basic PDA200E induction loop systems, one microphone and one audio (line level) lead can be connected directly to the PDA200E's internal screw connectors. For systems requiring more inputs, a range of wall, ceiling and desk mountable single gang audio input plates are available to increase the PDA200E's audio input capability.

A total of six 'outreach plates' are available (one to suit virtually every conceivable variant of audio input), each featuring a built-in mixer, pre-amp, input level control and balancing output. Up to ten plates of any type/mix can be daisy chained to the PDA200E with cable lengths of 100m (total network length) easily achievable using twin pair screened audio cable (i.e. Belden 8723) without any appreciable degradation of audio quality.



All plates are surface mountable on 25mm single gang back boxes and the fact they can be installed at the most convenient point on an installation overcomes the need for long trailing microphone leads and extensions. An optional 'AFILS ACTIVE' indicator plate is also available to inform the hearing impaired that a loop system has been fitted.

The outreach plate system is ideal for leisure centres, schools, conference centres, etc, where the need to have separate and spatially distributed audio inputs is a must.

### PDA200E Kit Variants



For ease of installation and specification, the PDA200E is available in a variety of cost-effective kit formats. It should be noted that loop cable is not included (we recommend 1mm<sup>2</sup> cable (i.e. one core of 1mm<sup>2</sup> T&E) which is readily available from most electrical distributors with an order code of 6242Y. For under carpet loops, use our 1mm<sup>2</sup> copper foil tape, part no. FLAT2005. This comes in 100m lengths and can be fixed to the floor using synthetic fibre adhesive tape (part no. TAPE). Our PDA200E kits include:-

#### AKM1 Meeting/seminar room kit

PDA200E; APM Omni-Directional Plated Microphone c/w 6m Belden cable; Loop Fitted sticker

#### AKR1 Waiting room kit

PDA200E; APL Outreach Plate c/w 6m Belden cable (audio input for paging system); Loop Fitted sticker

#### AKT1 TV/music lounge kit

PDA200E; AMH Handheld Microphone; APJ Outreach Plate c/w 6m Belden cable; APL Outreach Plate c/w 6m Belden cable; APS Scart to Double Phono Lead (for TVs, tape decks, etc); Loop Fitted sticker

#### AKW1 Place of worship kit 1

PDA200E; AML Lectern Microphone; APJ Outreach Plate c/w 6m Belden cable; APL Outreach Plate c/w 6m Belden cable (audio input for CD/tape deck); Loop Fitted sticker

#### AKL1 Lecture room kit

PDA200E; AMT Tie/Desk Microphone; AML Lectern Microphone; 2 x APJ Outreach Plates c/w 6m Belden cable; Loop Fitted sticker

#### AKUI Retail unit kit

PDA200E Amplifier; AML Lectern Mic; APJ Outreach Plate c/w 6m Belden cable; Loop Fitted sticker

#### AKHI Health and fitness club kit

PDA200E; AMR Radio Microphone & storage case; APQ Outreach Plate c/w 6m Belden cable; APL Outreach Plate c/w 6m Belden cable (for CD/tape deck); Loop Fitted sticker

#### AKW2 Place of worship kit 2

PDA200E; AMR Radio Microphone & storage case; APQ Outreach Plate c/w 6m Belden cable; 2 x APXM Outreach Plates c/w 6m Belden cable (for existing mics); Loop Fitted sticker.

### Microphones, SCART leads, etc

#### AMT Tie/Desk microphone



Omni-directional microphone complete with tie clip, desk mount attachment & 2m lead. (Wire direct or use APJ plate)

#### AMH Handheld microphone



Omni-directional handheld microphone with on/off switch, foam windshield and 6m lead. (Wire direct or use APJ plate)

#### APM Omni-directional plated microphone



A wall, ceiling or desk mount mic with line level converter for direct connection to the PDA200E's line input or outreach plate network.

#### AML Lectern microphone



A flush-mountable lectern microphone. for tables, counters and desktops with 0.5m lead (Wire direct or use APJ plate)

#### AMD Desktop microphone



A noise-cancelling desktop paging microphone complete with push to talk button and 1m lead (Wire direct or use APJ plate)

#### AMR Radio microphone kit



A clip-on wireless lavalier mic. complete with receiver, belt transmitter & AC adaptor. (Wire direct or use APQ plate)

#### AMP Professional microphone



A professional handheld condenser microphone (Wire direct or use 1 x XLR-XLR lead to connect to an APXM plate)

#### APS Scart to double phono lead



A 1m SCART to double phono lead, for connecting TVs, CD players, etc, to the PDA200E amplifier via an APL plate

### Loop testing/listening devices



Our RXTi induction loop receiver allows the quality of the loop system to be tested during set-up. Requires 2 x AAA batteries and a set of Walkman type headphones (not supplied)