

OMNI-T150



Features:

- Solid state construction.
- 1.5m Radial field
- Line or PA system input.
- Small profile.
- Wall or post mountable.
- Weatherproof.
- Vandal resistant.

The Omni-T150 Passive induction loop listening point has been designed to provide an assistive listening facility for individuals using inductive loop pick-up hearing aids in local areas where larger loop systems are either not required or are impractical.

The Omni-T150 works as a speaker relaying customer information messages in conjunction with existing PA system speakers. This negates the need for separate 'push button' help points as the information is being transmitted 'live' to the customer.

How It Works.

The Omni-T150 works in much the same way as a speaker but without the diaphragm. A coil mounted in a hearing aid or other suitable receiver, receives the magnetic field in the same way a transformer works, with the loop acting as the primary and the receiver's coil as the secondary. The elimination of a local sound path helps to reduce the interfering effects of distance and background noise, which causes particular problems for hearing aid users.

Operation.

The Omni-T150 is a self contained unit and is designed to comply with IEC 118-4 standards for induction loop assistive listening systems and with EN61000-2-7 EMC standards. It also meets and exceeds the requirements for European product quality standards and is CE marked.

The unit can be connected directly to 100v PA speaker line, there is no need for additional power.

The Omni-T150 transmits an audible signal at an optimum range of 1.5metres (radial from aerial at 100mA/m). Hearing aids typically work at 100mA/m.

The T150 can be either wall or post mounted.

We recommend regular testing with AFILS/Loop listener unit or by person (s) with hearing aid.

Advantages:

- No need to extend high current induction loop cable from a central location.
- No need to provide mains power supply to a remote induction loop amplifier.
- Simplified wiring:
The Omni-T150 can be connected to existing 100v PA speaker line.
- Maintenance free.



Construction.

Housing:

The external housing is constructed from 304 stainless steel and is virtually vandal proof. The front cover is finished in Plastilac® AE265 polyurethane topcoat formulated for use as part of a fully approved Trimate system which, when applied to aluminium, steel and specific phenolic substrates, meets the low smoke and toxic fume emission requirements of the mass transit industry .

Aerial:

The aerial is a polyester-imide enamelled copper wire, overcoated with polyamide-imide. It is rated at 210° C and a 5000h life test at 230° C with a test voltage of 400V. This wire conforms to IEC 60317 – 13 and NEMA MW 35/36 and has UL approval class 200. Housed in IP65 rated diecast box. (EN 60529/ IEC 529)

Approvals.

The Omni-T150 has full Network Rail approval for use on both overground and section 12 stations :

- Certificate No. PA05/03536 issue 2
- Part No. Omni T-150
- Pads No. 089/000013

Mounting Options:

The Omni-T150 can be either wall or post mounted.

Post mounting kits, posts, bollards and signage are available for the Omni-T150 on request.

Maintenance:

The Omni-T150 has no moving parts or electrical components making the unit maintenance free once installed.



Post mounted Omni-T150, Millbrook Station Marston Vale (London Midland)

Specification:

Input.	100v Line input (balanced or unbalanced) or Line input 200mV to 1V RMS
Output.	1.5 metres signal (optimum)
Power Consumption.	>0.2 mW at 100v (typical)
Connection.	Two part screw terminal.
Dimensions.	250mm (H) x 250mm (W) x 120mm (D)
Weight.	7 Kilograms
Operating Temperature.	-25°C to +50°C
Colour.	Blue (RAL 5010)
IP Rating.	Aerial casing IP65 (EN60529/IEC 529)
Access.	8 x M3 Security screws (Allen Key)
Warranty.	12 months

Subject to correct installation, the Omni T150 induction loop is unaffected by humidity as the Aerial Coil, Line Transformer (if fitted) and terminal connections are contained within an IP65 rated Diecast box mounted within a Stainless Steel outer cover.



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