



T14-1

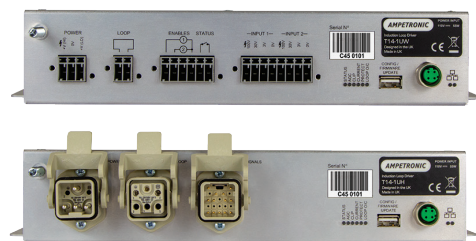
Transport hearing loop driver

- Compliance to relevant rail standards EN50155, EN50121-3-2 EN45545
- Cover a whole carriage with a single amplifier
- Unrivalled intelligibility

Service broadcasts and emergency announcements through rail and tram Public Address (PA) systems are now part of everyday life. Their direct connection to the user's hearing aid means that Hearing Loops are the only assistive listening technology suitable for use on public passenger vehicles.

The T14-1 hearing loop driver from Ampetronic offers performance you can rely on:

- Generating less heat than other drivers in its class
- Remote technical support and network features to control and configure the system
- Enables reporting features to be integrated with the TCMS
- Metal Loss Correction
- Low lifetime cost
- Excellent reliability backed by a 5 year warranty



T14-1UW

T14-1UH

For more information on hearing loop design, meeting regulatory standards or hearing loop installations contact our friendly and knowledgeable team on: +44 (0) 1636 610062 or email: sales@ampetronic.com

Ampetronic™ T14-1 Transport hearing loop drivers:

- **T14-1LW: 24V power, Wago connectors**
- **T14-1LH: 24V power, Harting connectors**
- **T14-1UW: 72-110V power, Wago connectors**
- **T14-1UH: 72-110V power, Harting connectors**

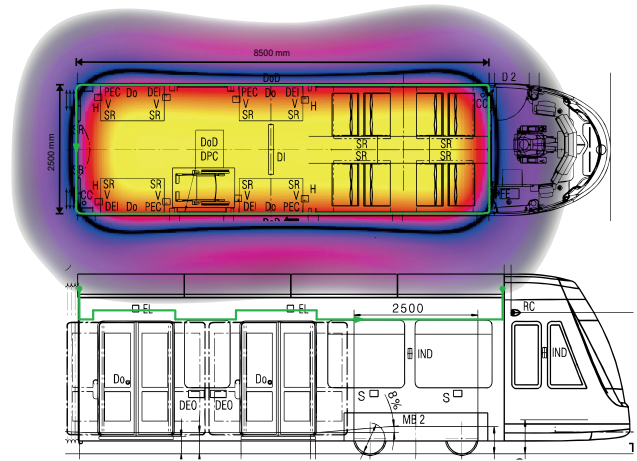
Featuring:

- Class D output stage driver for maximum efficiency, unsurpassed in its field
- Less weight than most alternatives in its class
- Options to allow analogue and VOIP audio inputs
- Transformer isolated inputs
- Industrial Ethernet port
- USB firmware update port

AMPETRONIC



Nottingham Express Transit (NET), Alstom Transport and The EFACEC Group, UK



Power & Power Connectors	24V-36V / 72-110V DC, up to 250W max Harting Han Q 3D 5-way insert (2/3 pins used) WAGO 769 series detachable 3-way block
Input 1 and 2	Pin selectable 2V / 30V / 100V balanced isolated line
Input Enables	Isolated control input per channel
Input & Control Connectors	Audio inputs, status and enables through Harting Han Q 3D 21-way or WAGO 769 series detachable blocks
Ethernet control I/O	HTML and Telnet control interface M12 circular Industrial Ethernet (TCP/IP), 10/100M
VOIP Input (option)	SIP/RTP network audio input available through ethernet connection
Priority Input	Option for input 2 to override other inputs with configurable attenuation level
Low Cut Filter	Switchable 250Hz low cut filter available on all inputs
Loop Output Drive Current	14A _{RMS} (19.8Apk) up to 60 seconds continuous 1kHz sine wave, peak >21A Cont. pink noise >6.6A _{RMS}
Drive Voltage	>24V _{RMS} (33Vpk) available at maximum output current
Loop Connector	Harting Han Q 3D 5-way insert (2 pins used) or WAGO 769 series detachable 2-way block
Rated THD	<0.4% (with 1kHz Sine, rated output current & load, 6dB AGC)
Output Impedance	>39Ω
Rated Load	0.8Ω + 120μH

Status Output	Isolated relay contact and network options (inc. SNMP) Monitoring of loop resistance and operating status
Freq. Response	100Hz to 6.5kHz ±0.5dB relative to 1kHz at low level.
Automatic Gain Control	The AGC is optimised for speech. Dynamic range >38dB
Metal Loss Correction	Dual slope configurable MLC up to 4dB per octave
Phase Shift	Output can be set to 0° or 90° to allow use in large area array designs
Size	Width 258mm (body) / 295mm (with mounting flanges) Depth 221mm (247mm over Harting connections) Height 54.5mm
Weight	1.5kg ± 0.2 kg
Mounting	Built-in bulkhead/panel mounting flanges. Optional rack mount tray available
Operating temperature	According to EN50155 to OT4 -40°C to +70°C (+85°C for 10 mins at startup)
Compliance	EN 50155 including EN 50121-3-2 and EN 61373. EN 45545 Fire safety

Standards compliance to IEC 62489-1

T14 amplifiers are designed to form part of a system which can meet all requirements of international loop performance standard IEC 60118-4, and relevant parts of IEC TR 63079. To fully meet requirements of these standards, correct design, installation, commissioning and maintenance are required.

Ampetronic drivers have CE and UL marks to all relevant safety and EMC standards.

Providing a genuine benefit



To find out more about assistive listening solutions for transport contact our experts on +44 (0) 1636 610062 or email: sales@ampetronic.com

AMPETRONIC®

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