

# TalkPerfect TP-DX-N Duplex Intercom

The Ampetronic TalkPerfect DX-N is the control unit for a two-way voice enhancement system, with an integral Hearing Loop driver. It is intended for use at Security Reception Desks, Customer Returns Points, Banks, Post Offices, Rail, Train and Bus ticket/service counters, Bureau de Change - any area that has a glazed security screen. The system is robust and built with a high standard of construction.

The TalkPerfect DX-N contains signal processing for system stability and clarity of speech and is shipped pre-set, directly for use with minimum set up adjustment.

The Hearing Loop (or Audio Induction Loop System [AFILS]) driver will allow hearing assistance to be provided to customers as part of the installation when connected to suitable installed loop wiring.

All kits include the amplifier, power supply, break out wiring loom, hearing loop coil and associated connectors. The choice of microphone and speaker configuration is offered through 3 different kits. See UP30002 TalkPerfect TP-DX-N Options or visit [www.ampetronic.com](http://www.ampetronic.com) for details.

## Features

- Full duplex communication
- Feedback and echo suppression built in
- Multiple microphone and speaker options
- Integrated hearing loop driver
- Compact design
- All connections are on one panel for ease of installation
- Fully adjustable gain on both channels
- Low cost of ownership
- 5 year warranty (accessories 1 year)

## Applications include

- Security reception desks
- Customer returns points
- Banks & Post Offices
- Cash counters
- Prison visitor communication desks
- Security screens
- Bureau de Change
- Police stations
- Petrol / gasoline forecourts



## Specifications

<b>Mic inputs</b>	Unbalanced electret microphone: Source impedance <math>< 1k\Omega</math> Gain: >60dB (control at max) Sensitivity: -50dBu (2.4mVRMS) @ 1kHz with gain control at max level Input noise level: -124dBu Input impedance: 1.1k $\Omega$ DC bias voltage: 12V though 11k $\Omega$
<b>Speaker O/Ps</b>	4W per channel, <math>< 0.5\%</math> THD @ 1kHz with +9dBu (1.2W into 4 $\Omega$ ), 20Hz - 10kHz Minimum load: 4 $\Omega$ , Frequency response: 100Hz - 6KHz +/-3dB
<b>Loop O/P</b>	Current: 2.4A RMS, Max Voltage: +14dBu (3.9VRMS) THD <math>< 0.5\%</math> @ 1kHz with 2.2ARMS into 0.3 $\Omega$ , 70uH Loop resistance: Min 0.3 $\Omega$ Frequency response: 80Hz - 5.0kHz +/-1.5dB re: 1kHz, AGC: 40dB dynamic range, high ratio limiting type MLC: Flat to >3dB per octave boost (fully anti-clockwise - flat response)
<b>Control / Status</b>	Mute turns all outputs off. LED output indicates if the system is active - connect to ground.
<b>Dimensions &amp; weight</b>	Width 220mm, depth 116mm, height 40mm, 630g
<b>Environmental</b>	IP30 Operating: -30 $^{\circ}$ C to +75 $^{\circ}$ C, 95% relative humidity
<b>DC Power</b>	12VDC, Range: 9VDC to 16VDC, Power Quiescent: 3.0W (250mA) Power Maximum: 24W (2.0A), Protection: 2.0A resettable device
<b>Standards</b>	Meets relevant CE, EMC and safety standards Maximum cable length for all connections is 3m