



# Information Sheet



## TALK-2

### ► What is Talk-2?

Voice Perfect's Talk-2 is a Voice Transfer Unit (VTU) with an integral inductive loop amplifier or external loop driver depending on your needs. In any situation where a conversation has to take place when the participants are separated by security glass, a wall or distance, Talk-2 can enable good two-way communication. An inductive loop can optimise personal reception for those with appropriate hearing aid devices.

Voice Perfect's VTU Systems are used in many public areas and enable our customers to demonstrate compliance with the Disability Discrimination Act. For hostile, busy environments where communications are key, Voice Perfect offers a digital VTU which utilises Digital Signal Processing (DSP) to ensure that feedback and distortion are minimised.

The Voice Perfect VTU System is designed to specifically meet the needs of the environment in which it will be installed. We have a variety of staff units, speaker assemblies and microphones to suit the ergonomics of the location and the space available.

Talk-2 is available in a number of interchangeable formats, and microphones, speakers and staff units can be configured to suit the site.



### ► Questions and Answers

#### ***Can Talk-2 VTUs be fitted to an existing installation?***

Yes, Talk-2 can be fitted to an existing installation. If you are building a new installation, we advise that you consult us at the design stage so we can create the best possible solution.

#### ***Do all Talk-2 installations have the Audio Frequency Induction Loop (AFIL) System?"***

All Talk-2 VTUs are manufactured by us with an integral loop amplifier; however this function does not have to be commissioned on installation. The facility for an AFIL is there, should you require it at a later date. However, we recommend that any public area should utilise the induction loop facility.

#### ***Does Voice Perfect install the Talk-2 systems?***

Voice Perfect recommend installation by our team of experienced and trained engineers so that we can certify the performance of the systems and to demonstrate compliance to relevant standards.

#### ***Does Voice Perfect provide maintenance for Talk-2 installations?***

Our team of experienced and trained engineers provide 24/7 support to our customers. We also provide service visits to ensure systems are maintained well; particularly important for AFIL problems where faults cannot be detected other than with hearing aids or our specialist equipment.

#### ***Can AFIL Systems be installed by themselves?***

Yes, AFIL systems can be installed without the VTU. We would recommend regular testing of the AFIL to ensure correct settings for hearing aid users.

### Technical Features

- Clear intelligibility of speech, both audio and via AFIL
  - Robust manufacturing processes to ISO9001:2000
- Product acceptance on both LUL and Network Rail
  - Proven durability in tough environments
- Aesthetically pleasing, even in heritage locations
  - Effective seismic isolation between speakers and microphones
- Directional (cardioid) response microphones
  - Bandwidth is set to 700Hz-3kHz for optimal speech transfer
- A generous 1100mW available at each audio output

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## Technical Specification



# TALK-2

This table shows the equipment and features of the Talk-2 products.

Equipment/Features	Talk-2	Talk-2 Digital
Customer-side microphone	✓	✓
Noise and echo cancellation		✓
Customer-side speakers	✓	✓
Customer side speaker output boost		✓
Staff unit with integrated speaker	✓	✓
Staff-side speaker output boost		✓
Staff-side gooseneck microphone	✓	✓
Staff-side headset with microphone		✓
Staff-side headset volume control		✓
Digitally enhanced audio performance		✓
Induction loop	✓	✓

### Audio

To obtain high volume level combined with stable operation Talk-2 uses:

- Effective seismic isolation between speakers and microphones
- Directional (cardioid) response microphones
- Bandwidth is set to 700Hz – 3kHz for optimal speech transfer
- A generous 1100mW available at each audio output. \*

\* The power output that can be used on each site is partially determined by the acoustics of that site.

### Power

Powered by a Class II plug-top power supply, from a standard 13A outlet. The PSU is approved to EN60950.

### Inductive Loop Output

Talk-2 features an integral inductive loop driver with an effective output of up to 1A for the window loop. Talk-2 can output to an external loop driver for more demanding applications, such as stainless steel counters. All loop installations are tested for conformance with the international AFILS standard IEC 60118-4.

### EMC Compliance

Talk-2 has been tested to, and demonstrated its conformance to, the following standards which have been listed in the Official Journal of the European Communities :-

	Description	Basic Standard	Status
<i>Emissions EN50081-1:1992</i>			
	Radiated RFI	EN55022-Class B:1995	PASS
	Conducted RFI	EN55022-Class B:1995	PASS
	Mains Harmonics	EN60555-2:1987	PASS
<i>Immunity EN50082-1:1998</i>			
	EMI Field	EN61000-4-3:1995	PASS
	EMI Keyed Carrier	ENV50204	PASS
	Direct Injection	EN61000-4-6:1996	PASS
	Fast Transients	EN61000-4-4:1995	PASS
	Electrostatic		
	Discharge	(ESD) EN61000-4-2:1995	PASS
	Dips & Interruptions	EN61000-4-11	PASS
	Surges	EN61000-4-5	PASS
	Magnetic Immunity	EN61000-4-8	PASS