

# STS-K020-S22/S30

## Speech Transfer System and Hearing Loop



CONTACTA SPEECH TRANSFER SYSTEMS

The STS-K020 Speech Transfer System provides assistance for clear communication where normal speech is impaired by use of glass, a security screen or other similar barriers.

Components:

- › STS-A31H, Hearing Loop and Duplex Audio Communication Amplifier
- › STS-SU1-G, Staff Unit Speaker and Microphone
- › STS-C100, Customer side Anti-vandal Microphone with Glass Mount Kit
- › STS-S22, Customer Overhead Speaker Module and Mounting Bracket OR STS-S30, Customer Overhead Flush Speaker
- › IL-AE96, Hearing Loop Aerial
- › WM-LABEL-F/B, Hearing Loop Sign and Housing for IL-AE96
- › PS-55, Power Supply

### Physical Data (boxed)

Dimensions	Height – 5.00" Width – 13.50" Depth – 9.50"
Weight	6.40lbs
Construction	Metalwork - Mild Steel STS-A31H - ABS Plastic Housing
Finish Options	Powder Coated Grey RAL 9006

### Applications

For use where one to one communication takes place such as:

- › Banks
- › Post offices
- › Theaters
- › Information Centers
- › Public Transit Systems
- › Ticket Counters
- › Embassies
- › Government Buildings

### Standards

- › CE, ROHS and WEEE compliant
- › BS EN 60118-4, in correct installations

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## Physical and Technical Data (Individual Parts)

Components	Physical Data	Technical Data	
<b>STS A31H</b> Hearing Loop and Duplex Audio Communication Amplifier	Dimensions: Height - 1.58" Width - 4.58" Depth - 4.50"  Weight - 0.32lbs Construction: ABS Plastic Housing Finish: Matt Black, Fine Texture	Supply Voltage	12-14 VDC
		Quiescent Current	100mA typical
		Operating Current	2A typical on speech peaks
		Power Switch	Push on - push off (tact switch under membrane)
		Microphones	Electret, supply 5V via 2.2K load resistor
		Speaker Output Power	RMS: 2.5W / 8 Ω 4.4W / 4 Ω
		Loop Drive Compliance	Constant current, bounded by 4V RMS & 3A RMS
		Total Harmonic Distortion	<5% (loop and speakers)
<b>STS-SU1</b> Staff Unit Speaker and Microphone	Dimensions: Height of base - 2.61" Height from bottom of base to top of microphone fully extended - 14.50" Width - 3.80" Depth - 6.02"  Weight: 1.79lbs Construction: Mild Steel Grey Leatherette or Black Textured	<b>Speaker</b>	
		RMS	5W
		Impedance	4 Ω
		Output	SPL 1W @ 1M 85dB
		Frequency Response	150Hz - 10300Hz
		<b>Microphone</b>	
		Directional Response	Cardioid
		Sensitivity	49.5dB+ 2dB @ 1kHz (0dB=1V/pa)
		Impedance	1.6K Ω+ 3-% @ 1kHz
		Frequency Response	150Hz - 10500Hz
<b>STS-S22</b> Customer Side Overhead Speaker and Mounting Bracket	Speaker Dimensions: Height - 2.50" Width - 3.87" Depth - 2.16" Bracket Dimensions: Height at wall mount - 0.82" Width - 4.00" Depth - 5.75"  Weight - 1.40lbs Construction: Mild Steel Finish: Powder Coated RAL9006	RMS	5W
		Impedance	4 Ω
		Output	SPL 1W @ 1M 85dB
		Frequency Response	150Hz - 11000Hz
<b>STS-C100</b> Customer Side Anti-Vandal Microphone and Glass Mounting Kit	STS-M14 Microphone Dimensions: Depth: 1.08" Diameter - 1.18" Construction: Aluminum Finish: Silver Anodised  Mounting Plate Dimensions: Depth - 0.75" Diameter - 5.00" Construction: Polycarbonate - Clear Gaskets and Hardware included	Directional Response	Cardioid
		Sensitivity	-47 ±3dB @ 1kHz
		Impedance	680 Ω +/- @1kHz
		Frequency Response	70Hz - 10300Hz
<b>PS-55</b> Power Supply	Dimensions: Height - 1.38" Width - 2.08" Depth - 3.92"  Cable length: 70.87" Weight: 0.51lbs Construction: ABS Case Finish: Black	Input	100-240V 50-60Hz 1A max
		Output	14V 2.14A 30W max
<b>IL-AE96</b> Loop Aerial	Height - 7.67" Width - 7.67" Depth - 0.01" Weight - 0.22lbs; Construction - Flexible PVC; Finish - White; Connection cable length - 78.74" Magnetic field strength distance approximately 47"		