



IP55 Surface Mounted Entry System

STS-K009-IP-L-B

This outdoor intercom system provides high quality sound for entry assistance locations, delivery points, and other open-air applications. Our IP55 rating makes this product perfectly suited to withstand harsh weather conditions and environments, offering protection against water, dust, and dirt ingress.

The surface mounted call unit is designed for installation at head height. The unit maintains an open, handsfree communication channel, while the call button triggers an audible alert to inform staff of a customer's presence as required. An LED light lets users find the system in darkness.

Our high quality microphone and speaker pick up minimal background noise, ensuring both the customer and staff side of the intercom can be clearly heard.

Components

- Speech Transfer Amplifier [STS-A31H-K009IP]
- Surface Mounted Call Unit [K009-IP]
- Staff Loudspeaker Unit [STS-SU1-B]
- PS-55 Power Supply [PS-55-01]
- Counter Hearing Loop Aerial [IL-AE99]

Physical Data (boxed)

Dimensions	Height – 120mm (4.72") Width – 640mm (25.19") Depth – 340mm (13.38")
Construction	Mixed
Finish	Black Powder Coated Leatherette

Optional Extras

Our Surface Mounted Call Unit [K009-IP] comes with a 3m length cable; for any larger distance installations a set of two of extension cables are required.

- CABLE-STS-EX5M
- CABLE-STS-EX10M
- CABLE-STS-EX15M
- CABLE-STS-EX20M

Applications

For use outdoors where one to one communication takes place through a screen or barrier:

- Outdoor access points (gates, security doors, etc.)
- Takeaway booths
- Transport and distribution depots
- Ports and ferry terminals
- Car parks/parking lots
- Medical, healthcare, and mass testing facilities
- Drive-through services (food and beverage, retail, banking)



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Physical and Technical Data (Individual Parts)

Component	Physical Data	Technical Data		
Speech Transfer Amplifier	Dimensions: Height - 116mm (4.57") Width - 115mm (4.53") Depth - 40mm (1.57") Weight: 100g (0.22lbs) Construction: ABS Plastic 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 & 2A RMS	
		Total Harmonic Distortion	<5% (loop and speakers)	
PS-55 Power Supply	Dimensions: Height - 93mm (3.66") Width - 49mm (1.93") Depth - 36mm (1.42") Cable length: 1.8m (70.87") Weight: 180g (0.39lbs) Construction: ABS Case Finish: Black	Input	100-240V 50-60Hz 1A max	
		Output	14V 2.14A 30W max	
Staff Loudspeaker Unit	Dimensions: Height - 370mm (6.30") Width - 95mm (2.76") Depth - 150mm (3.94") Weight: 820g (1.80lbs) Construction: Mild Steel Finish: Grey Powder Coated Leatherette Black Textured Powder Coated	Speaker	RMS	5W
			Impedance	4Ω
			Output	SPL 1W @ 1M 85dB
			Frequency Response	150Hz - 10300Hz
		Microphone	Directional Response	Cardioid
			Frequency Response	150Hz - 10500Hz
			Sensitivity	49.5dB+ 2dB @ 1kHz
			Impedance	1.6K Ohms+ 3-% @ 1kHz
Surface Mounted Call Unit	Dimensions: Height - 184mm (7.2") Width - 124mm (4.8") Depth - 80mm (3.14") Cable length - 3m (8.3ft) Construction: Mixed, Marine Grade 316 Stainless Steel, Polycarbonate Finish: Black Powder Coated Leatherette	Speaker	Rated Power Input	15W
			Impedance	4 Ohm
			Sensitivity	SPL 1W @ 1M 84dB
			Frequency Response	100Hz - 20,000Hz
		Microphone	Directional Response	Omnidirectional
			Frequency Response	100Hz - 20,000Hz
			Sensitivity	-42dB +/-1 3dB @ 1kHz (0dB=1V/pa)
			Output Impedance	2.2K
Counter Hearing Loop Aerial	Dimensions: To be moulded on site to required size/ shape by installers. Weight: 100g (0.22lbs) Construction: Copper Wire with Black Protective Covering Finish: Black			

Standards

- Induction loop performance compliant with BS EN60118-4 (when correctly installed)
- K009-IP - Ingress protection rated IP55 against penetration from water and dust

Legislation

Directive Number	Directive Title
2014/35/EU	Low Voltage Directive (LED)
2012/19-EU	Waste Electrical & Electronic Equipment (WEEE) Directive
(EU) 2015/863	RoHS III Directive