



## SHS1890™ PTT Amplifier

Meets the needs of mission critical applications:

- Public Safety
- Air Traffic Control
- Radio Dispatch Facilities
- Training/Simulation

# SHS1890 Push-to-Talk Amplifier

## FEATURES:

- Allows the use of any H-series headset top in 6-wire controller and dispatch operations
- Push-to-talk switch with selectable locking or momentary operation
- PJ-7 (equivalent to WE-425) connector
- Choice of 3 different coil cord lengths
- CE compliant

## CABLE OPTIONS AVAILABLE:

- SHS1890-10 10-foot coil cord
- SHS1890-15 15-foot coil cord
- SHS1890-25 25-foot coil cord

Plantronics also offers the SHS2310, which features 10 dB of receiver amplification.



## PRODUCT SPECIFICATIONS

### Complete Headset

(including H31CD capsule, 15-foot cord, push-to-talk switch)

Net weight: 230 grams (8.1 oz.)

H31CD capsule only: 10 grams (.35 oz.)

Shipping weight: 490 grams (17.3 oz.)

### Operating and Storage Ranges

Operating current range: 10 to 120 mA dc

Operating temperature: 0°C to 50°C (32°F to 122°F)

Storage temperature: -40°C to 66°C (-40° F to 151° F)

### Microphone/Amplifier

Output level:  $-23.5 \pm 5$  dBV (37.6 to 119 mV RMS)

Frequency range: 300 to 3300 Hz

Distortion: < 5%, 300 to 3300 Hz

DC resistance: > 35 ohms

Impedance: 50 ohms

Polarity: Nonpolar

Terminal voltage: 2.3 Vdc @ 10 mA; 5.0 Vdc @ 100mA

Downward Expander Depth: 12 dB

### Receiver

The SHS1890 allows the use of a wide variety of receiver styles. In addition to the characteristics listed in the table below, each receiver has the following features:

Acoustic limiter: Solid-state limiting device across the receiver transducer

Frequency range: 300 to 3300 Hz

Distortion: < 5%

Unless otherwise specified, all specifications are nominal, and assume a 50 ohm resistive load with a bias of 4.8 V dc through 226.5 ohms, and an input of 94 db SPL at 1000 Hz into an attached headset top. Specifications are subject to change.

## RECEIVER CHARACTERISTICS OF TOPS USED WITH SHS1890 PUSH-TO-TALK AMPLIFIER

Plantronics Top	StarSet <sup>®</sup> III H31CD	TriStar <sup>®</sup> H81/H81N	SupraPlus <sup>®</sup> Monaural HW251/HW251N	SupraPlus <sup>®</sup> Binaural HW261/HW261N	Encore <sup>®</sup> Monaural H91/H91N	Encore <sup>®</sup> Binaural H101/H101N
1kHz sensitivity (dBPa/V, $\pm 4$ dB)	20.5	22.0	14.0	9.0	wide band: 26.0 narrow band: 37.0	wide band: 19.5 narrow band: 31.5
Receiver Impedance (ohms, at 1 kHz)	600 $\pm$ 150	450 $\pm$ 112.5	150 $\pm$ 37.5	300 $\pm$ 75	wide band: 205 $\pm$ 30.8 narrow band: 250 $\pm$ 37.5	wide band: 395 $\pm$ 59.3 narrow band: 440 $\pm$ 66
Source Drive Impedance (ohms)	600	10	10	10	10	10
Measuring Device	Brüel & Kjaer 4157 Ear Simulator <sup>1</sup>	Brüel & Kjaer 4157 Ear Simulator <sup>1</sup>	Brüel & Kjaer 4157 Ear Simulator <sup>1</sup>	Brüel & Kjaer 4157 Ear Simulator <sup>1</sup>	Brüel & Kjaer 4157 Ear Simulator <sup>1</sup>	Brüel & Kjaer 4157 Ear Simulator <sup>1</sup>

Note 1: A proprietary Plantronics adapter is used with the specified Brüel & Kjaer measuring device.

## GLOBAL CUSTOMER CARE

Backed by Plantronics industry leading global service and support.

800-544-4660 (US and Canada)

831-458-7700 (outside US)

For more information about the SHS1890 or other Plantronics products, please visit our website at [plantronics.com](http://plantronics.com)



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