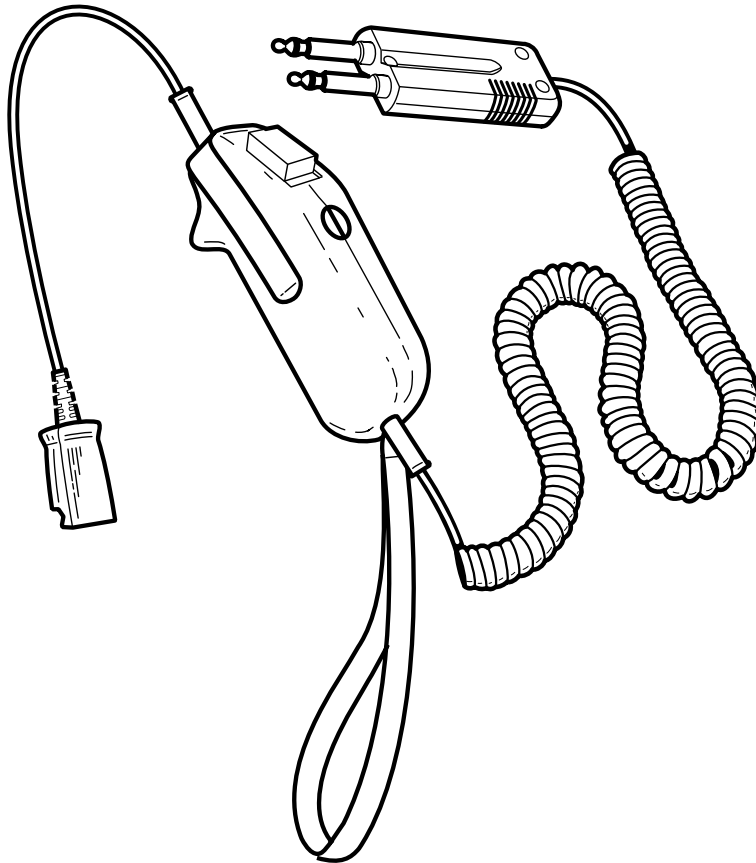


## SHS 1890 Push-to-Talk Amplifier



### 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:

SHS 1890-10	10-foot coil cord
SHS 1890-15	15-foot coil cord
SHS 1890-25	25-foot coil cord

Plantronics also offers the SHS 2310, 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 ± 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	20 dB

#### Receiver

The SHS 1890 allows the use of a wide variety of receiver styles. In addition to the characteristics listed in the table on the reverse side, each receiver has the following features:

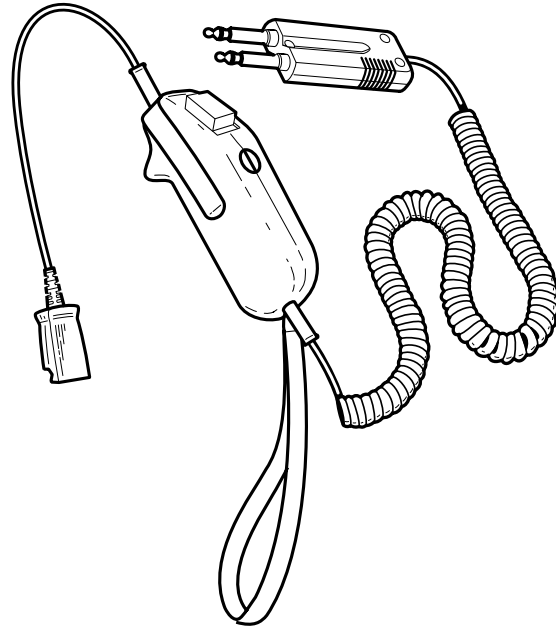
Acoustic limiter: Solid-state limiting device across the receiver transducer

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.

# SHS 1890



## SHS 1890 Push-to-Talk Amplifier Features

- Allows the use of H-series headset tops 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

## Receiver Characteristics of Tops Used with SHS 1890 Push-to-Talk Amplifier

Plantronics Top	StarSet® III H31CD	StarSet® III H31/H31N	TriStar® H81/H81N	Supra® IV Monaural H51/H51N	Supra® IV Binaural H61/H61N	Encore® Monaural H91/H91N	Encore® Binaural H101/H101N
1kHz sensitivity (dBPa/V, ±4 dB)	20.5	19.5	22.0	30.0	24.5	wide band: 26.0 narrow band: 37.0	wide band: 19.5 narrow band: 31.5
Receiver Impedance (ohms, at 1 kHz)	600 ± 150	480 ± 50	450 ± 112.5	192.5 ± 57.5	385 ± 115	wide band: 205 ± 30.8 narrow band: 250 ± 37.5	wide band: 395 ± 59.3 narrow band: 440 ± 66
Source Drive Impedance (ohms)	600	10	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 4153 Artificial Ear	Brüel & Kjaer 4153 Artificial Ear	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.

**OUR PROMISE TO YOU:**  
Plantronics headsets  
deliver superior  
durability and reliability

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Contact your local distributor  
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[www.plantronics.com](http://www.plantronics.com)

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