



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 ± 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 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® 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 ¹	Brüel & Kjaer 4157 Ear Simulator ¹	Brüel & Kjaer 4157 Ear Simulator ¹	Brüel & Kjaer 4153 Artificial Ear	Brüel & Kjaer 4153 Artificial Ear	Brüel & Kjaer 4157 Ear Simulator ¹	Brüel & Kjaer 4157 Ear Simulator ¹

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



For more information about Plantronics products, visit our Web site at: www.plantronics.com

TEL: 800-544-4660 in USA and CANADA
831-458-7700 (OUTSIDE USA)

© 2007 Plantronics, Inc. All rights reserved. Plantronics, the logo design, Encore, SHS1890, Sound Innovation, StarSet, Supra, and TriStar are trademarks or registered trademarks of Plantronics, Inc. Printed 09/07 SP54