



SHS1890™ PTT Amplifier

Meets the needs of mission critical applications:

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

plantronics®

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: 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 [®] III H31CD	TriStar [®] H81/H81N	SupraPlus [®] Monaural HW251/HW251N	SupraPlus [®] Binaural HW261/HW261N	Encore [®] Monaural H91/H91N	Encore [®] Binaural H101/H101N
1kHz sensitivity (dBPa/V, ± 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 ¹	Brüel & Kjaer 4157 Ear Simulator ¹	Brüel & Kjaer 4157 Ear Simulator ¹	Brüel & Kjaer 4157 Ear Simulator ¹	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.

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



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