**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.

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**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)

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**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

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**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.

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**Receiver Characteristics of Tops Used with SHS1890 Push-to-talk Amplifier**

<table>
<thead>
<tr>
<th>Plantronics Top</th>
<th>StarSet® III H31CD</th>
<th>StarSet® III H31/H31N</th>
<th>TriStar® H81/H81N</th>
<th>SupraPlus® Monaural H251/H251N</th>
<th>SupraPlus® Binaural H261/H261N</th>
<th>Encore® Monaural H91/H91N</th>
<th>Encore® Binaural H101/H101N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1kHz sensitivity (dBPa/V, ±4 dB)</td>
<td>20.5</td>
<td>19.5</td>
<td>22.0</td>
<td>14.0</td>
<td>9.0</td>
<td>wide band: 26.0</td>
<td>wide band: 19.5</td>
</tr>
<tr>
<td>Receiver Impedance (ohms, at 1 kHz)</td>
<td>600 ± 150</td>
<td>480 ± 50</td>
<td>450 ± 122.5</td>
<td>150 ± 37.5</td>
<td>300 ± 75</td>
<td>wide band: 205 ± 30.8</td>
<td>wide band: 395 ± 59.3</td>
</tr>
<tr>
<td>Source Drive Impedance (ohms)</td>
<td>600</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Measuring Device</td>
<td>Brüel &amp; Kjaer 4157 Ear Simulator¹</td>
<td>Brüel &amp; Kjaer 4157 Ear Simulator¹</td>
<td>Brüel &amp; Kjaer 4157 Ear Simulator¹</td>
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</tbody>
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Note 1: A proprietary Plantronics adapter is used with the specified Brüel & Kjaer measuring device.

For more information about the SHS1890 or other Plantronics products, please visit our Web site at www.plantronics.com.

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