MEETS THE NEEDS OF MISSION CRITICAL APPLICATIONS

BENEFITS
- 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.

SHS1890 PUSH-TO-TALK AMPLIFIER
SHS1890 PTT with carbon type microphone amplifier, PJ-7 connector, and selectable switch operation (momentary or locking modes). Compatible with H-Series headsets.

CABLE OPTIONS AVAILABLE
- SHS1890-10, 10-foot coil cord, p/n 60825-310
- SHS1890-15, 15-foot coil cord, p/n 60825-315
- SHS1890-25, 25-foot coil cord, p/n 60825-325
SHS1890 PTT AMPLIFIER

SPECIFICATIONS

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
- Distortion: < 5%

WARRANTY
- 2 years

UNLESS OTHERWISE SPECIFIED, ALL SPECIFICATIONS ARE NOMINAL, AND ASSUME A 50 OHM RESISTIVE LOAD WITH A BIAS OF 4.8 VDC THROUGH 226.5 OHMS, AND AN INPUT OF 94 DB SPL AT 1000 Hz INTO AN ATTACHED HEADSET TOP. SPECIFICATIONS ARE SUBJECT TO CHANGE.

WEIGHTS*

<table>
<thead>
<tr>
<th>MODEL</th>
<th>P/N</th>
<th>AVERAGE WEIGHT (lbs)</th>
<th>AVERAGE WEIGHT (gr)</th>
<th>AVERAGE WEIGHT w/BOX (lbs)</th>
<th>AVERAGE WEIGHT w/BOX (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHS 1890-10</td>
<td>60825-310</td>
<td>0.48</td>
<td>218</td>
<td>0.64</td>
<td>289</td>
</tr>
<tr>
<td>SHS 1890-15</td>
<td>60825-315</td>
<td>0.61</td>
<td>277</td>
<td>0.77</td>
<td>347</td>
</tr>
<tr>
<td>SHS 1890-25</td>
<td>60825-325</td>
<td>0.77</td>
<td>349</td>
<td>0.93</td>
<td>421</td>
</tr>
</tbody>
</table>

Approximate weights are for reference.

RECEIVER CHARACTERISTICS OF HEADSETS USED WITH SHS1890 PUSH-TO-TALK AMPLIFIER

<table>
<thead>
<tr>
<th>PLANTRONICS HEADSET</th>
<th>MONITOR/HEADSET</th>
<th>MICROPHONE TYPE</th>
<th>1KHZ SENSITIVITY (dBPa/V, ±4 dB)</th>
<th>RECEIVER IMPEDANCE (OHMS, at 1 kHz)</th>
<th>SOURCE DRIVE IMPEDANCE (OHMS)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Starset H31CD</td>
<td>Omni-directional</td>
<td>20.5</td>
<td>600 ± 150</td>
<td>600</td>
</tr>
<tr>
<td></td>
<td>Tristar H81N-CD</td>
<td>Noise-canceling</td>
<td>22</td>
<td>475 ± 119</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>SupraPlus H251N-CD</td>
<td>Noise-canceling, Omni-directional</td>
<td>14</td>
<td>150 ± 37.5</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>EncourePro HW510</td>
<td>Noise-canceling</td>
<td>9</td>
<td>300 ± 75</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>EncourePro HW520</td>
<td>Noise-canceling</td>
<td>17</td>
<td>120</td>
<td>10</td>
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<tr>
<td></td>
<td>EncourePro HW710</td>
<td>Noise-canceling</td>
<td>13</td>
<td>220</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>EncourePro HW720</td>
<td>Noise-canceling</td>
<td>15</td>
<td>150</td>
<td>10</td>
</tr>
</tbody>
</table>

Measuring device for all models is Bruel & Kjaer 4157 Ear Simulator.
Approximate weights for reference.

LEARN MORE
For more information about the SHS1890 PTT Amplifier or other Poly products, please visit our website at poly.com

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