



SHS1890™ PTT AMPLIFIER

Meets the needs of mission
critical applications:

PUBLIC SAFETY

AIR TRAFFIC CONTROL

DISPATCH FACILITIES

TRAINING/SIMULATION





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, p/n 60825-310
- SHS1890-15, 15-foot coil cord, p/n 60825-315
- SHS1890-25, 25-foot coil cord, p/n 60825-325

Plantronics also offers the SHS2310, which features 10 dB of receiver amplification.



SPECIFICATIONS

Complete Headset	Microphone/Amplifier	Receiver
(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)	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	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%

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.

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

Plantronics headset	Starset® H31CD	Tristar® H81N-CD	SupraPlus® H251-CD/ H251N-CD	SupraPlus H261N-CD	EncorePro® HW510/ HW510V	EncorePro HW520/ HW520V	EncorePro HW710	EncorePro HW720
Receiver	Monaural, Narrowband, In-ear (eartip)	Monaural, Narrowband, Over-the-ear (earbud)	Monaural, Narrowband, Over-the-head	Binaural, Narrowband, Over-the-head	Monaural, Wideband, Over-the-head	Binaural, Wideband, Over-the-head	Monaural, Wideband, Over-the-head	Binaural, Wideband, Over-the-head
Microphone type	Omni-directional	Noise-canceling	Noise-canceling, Omni-directional	Noise-canceling	Noise-canceling, Omni-directional	Noise-canceling, Omni-directional	Noise-canceling	Noise-canceling
1kHz sensitivity (dBPa/V, ±4 dB)	20.5	22	14	9	17	13	15	11
Receiver impedance (ohms, at 1 kHz)	600 ± 150	0 450 ± 112.5	150 ± 37.5	300 ± 75	120	220	150	300
Source drive impedance (ohms)	600	10	10	10	10	10	10	10

Measuring device for all models is Brüel & Kjaer 4157 Ear Simulator.

For more information about the SHS1890 PTT Amplifier or other Plantronics products, please visit our website at plantronics.com.

PLANTRONICS CUSTOMER CARE

Backed by Plantronics industry-leading global service and support.

1-855-765-7878

plantronics.com/contactsupport

