

# HS 400

Aviation Headset



## FEATURES

- Closed headphone design
- Ear pads with extra soft leatherette cover and viscoelastic filling
- Audio box to connect mobile phones, iPhones or music players (supplied with 3 connecting cables)
- Automatic volume reduction of phone or music player when signals from the intercom occur (selectable function)
- Mono/Stereo selection switch
- Noise-compensated microphone with adjustable gain
- Integrated volume control (left/right separately adjustable)
- Ear caps in metallic silver design with metal bezels
- Rugged headband design made of spring steel with soft, replaceable headband pad
- Light weight of approx. 325 g (without cable)
- Modular construction for easy servicing
- Five-year warranty / Made in Germany

## APPLICATIONS

The HS 400 is a closed-back aviation headset. The headphone features a very high reproduction precision and a balanced sound. Another special feature is the wide frequency response of 10 - 20,000 Hz.

The soft, circumaural ear pads filled with viscoelastic foam and the adjustable padded headband provide a high comfort. The microphone with adjustable gain can be optimally positioned with the flexible gooseneck. The figure eight polar pattern ensures a high gain before feedback and noise cancellation. The rotating microphone holder allows positioning the microphone on the right or left hand side.

The connecting cable is single-sided. There are various versions with different connecting cables (e.g. 1/4" (6.35 mm) and PJ-068 jack or U-174/U jack). The connecting cable provides an audio box to adjust the volume of the headphone and to connect a mobile phone or music player (e.g. CD or MP3 player). If signals from the intercom occur, the volume of the mobile phone or music player can be reduced automatically. This function can also be switched off.

# HS 400

## TECHNICAL SPECIFICATIONS

### Headphone

Transducer type . . . . . Dynamic  
 Operating principle . . . . . Closed  
 Frequency response . . . . . 10 - 20,000 Hz  
 Nominal impedance mono/stereo . . . 210 Ω / 270 Ω  
 Nominal SPL . . . . . 95 dB SPL  
 T.H.D. . . . . < 0.2%  
 Power handling capacity . . . . . 100 mW  
 Sound coupling to ear . . . . . Circumaural  
 Ambient noise attenuation . . . . . approx. 30 dB /  
 frequency-dependent  
 Nominal headband pressure . . . . . 8 N

### Microphone

Transducer type . . . . . Condenser (back electret)  
 Frequency response . . . . . 400 - 15,000 Hz  
 Polar pattern . . . . . Figure eight  
 Output voltage at 1 kHz . . . . . 1 - 11 mV / Pa, adjustable  
 Max. SPL . . . . . 120 dB  
 Nominal impedance . . . . . approx. 350 Ω  
 Current consumption . . . . . approx. 6 - 18 mA  
 Supply voltage . . . . . typ. 16 V DC (8 - 16 V DC,  
 acc. to RTCA/DO 214)

### General

Weight without cable / audio box . . . . approx. 325 g (0.72 lb)

### HS 400 Signum

Cable . . . . . approx. 1.80 m (70.87"),  
 straight cable

#### Connection

Headphone . . . . . 1/4" stereo jack plug  
 (6.35 mm)

Microphone . . . . . PJ-068 jack plug

Music player / mobile telephone . . . . Mini jack socket (3.5 mm)

### HS 400 Rotor

Cable . . . . . Coiled cable

#### Connection

Headphone, microphone . . . . . U-174/U jack plug

Music player / mobile telephone . . . . Mini jack socket (3.5 mm)

## VERSIONS

HS 400 Signum . . . . . Aviation headset with 1/4"  
 (6.35 mm) and  
 PJ-068 jack plugs . . . . . Order # 721.298  
 HS 400 Rotor . . . . . Aviation headset with  
 U-174/U jack plug for  
 helicopters, coiled cable. . . . Order # 722.480

## SUPPLIED ACCESSORIES

- Padded case
- Wind shield for the microphone
- Connecting cable for mobile phones
- Connecting cable for iPhone
- Connecting cable for portable music players such as CD or MP3 players

Customised versions may include different accessories.

## SPARE PARTS

BN 59-53/D . . . . . Headband pad, black,  
 leatherette . . . . . Order # 990.681  
 EDT 300 GS . . . . . Ear pads, gel-filled, black . . . Order # 900.799  
 EDT 600 SS . . . . . Ear pads, leatherette, black,  
 viscoelastic . . . . . Order # 904.872  
 WS 20 sw . . . . . Wind shield, black . . . . . Order # 439.975

## FREQUENCY RESPONSE & POLAR PATTERN

This frequency response curve (measuring tolerance ± 2.5 dB) and polar pattern correspond to a typical production sample for this microphone.

