



Arnesys HS 220 Headset

The next generation of heavy duty, noise-cancelling headsets



The Arnesys HS 220 Headset combines communications facilities and noise attenuation with comfort, all of which are extremely important to an operator who requires to use a headset for a long duration.

Transport, machinery and other applications frequently subject operators and crewmembers to unacceptably high noise levels. Noise impairs communications, and for a lengthy duration can reduce operator/crew efficiency. Prolonged exposure to high noise levels is also a hazard to the ears and is legally banned by many administrations. The Arnesys HS 220 Headset was designed with these problems in mind!

The Arnesys HS 220 Headset consists of two lightweight, high quality, noise-attenuating earshells, flexibly mounted on a double spring, wire headband. The earshells are fitted with a special robust polyurethane covered earpads, which provides an excellent seal to the head with the minimum clamping force on the headset. The headband is adjustable and is covered with a soft padded cover, which spreads the weight of the headset comfortably over a large area. The headset is fitted with a water-resistant noise-cancelling microphone mounted on an arm with a very wide range of personal adjustment.

Hard-Hat version - HS 220 Headset As an option the Arnesys HS220 can be provided for use with a “Hard-hat” which is compliant with legal requirements for industrial head protection. With this option, the mic/earpad units are fitted with clips on the outer faces of the earshells, and a soft adjustable neckstrap. The neckstrap gives the headset additional stability on the head, and offers security when the unit is in use. This version is the Arnesys HS 220HH.

Options for the HS 220 include ear/microphone types, coiled or straight cables and switches.

Headset Description

Earmuff

Wide, soft padded headband distributes weight while two-point suspension exerts low pressure for comfortable, long term use. Soft, liquid foam-filled ear cushions provide added comfort. Microphone boom easily swivels and can be quickly adjusted to fit wearer. Baffle mounted earphone in ear cup provides distortion free reproduction.

Receiver

Dynamic Type (Hearing Aid Compatible)

Microphone & Boom

The electret, close-talking microphone giving superb noise rejection and high-frequency crossover of near and far field responses, is housed in a black, metallic housing tailored for optimum acoustic performance. In addition, the unit is close-talking (noise-cancelling). The microphone capsule is waterproof with no appreciable loss of performance after submersion in 1m water for short periods. It can withstand severe environmental conditions and has a high resistance to mechanical shock. The unit has excellent RF screening, meeting the 2v/m test over the frequency range 1-20 MHz

The metallic boom is double-spirally- wound and flexible, which allow easy adjustment, and maintains the microphone in an optimum acoustic position above the top lip, or close to the side of the mouth. The boom is 6mm in diameter and is corrosion resistant.

Technical Specifications

Earphone (Receiver) Transducer

Dynamic Type (Hearing Aid Compatible)

Sensitivity - 96dB S.P.L./40.5mV (0dB=20µPa.1kHz)

Impedance - 150 ohms (1kHz)

Microphone

Transducer type: electret noise cancelling

Sensitivity: nominally -41dBV/Pa at 1kHz for 5V supply via 4k7load

Physical & Environmental Data

Usage temperature: -30°C to +55°C Storage temperature: -40°C to +70°C

Humidity range: Up to 95% RH

Mass: 240g

Colour: black

Weight

Accessories

3-Position Miniature Switch with Lapel Clip

Action: ON/OFF/PRESS-ON. Customer to detail wiring of switch

In-line PTT Switch

Action: ON/OFF. Customer to detail wiring of switch

Plug-connected models available

Customer to detail plug

Options Customised lengths and end terminations are available as options.