



AK5850H

## AK5850H

Ex-approved Headset with headband

- ✓ Rugged headset for Ex and Industrial environments
- ✓ Noise-cancelling microphone
- ✓ High quality digital background noise reduction
- ✓ HD-voice compatible
- ✓ High quality audio
- ✓ Standard 4-pole Nexus connector for easy connection/replacement
- ✓ For use with Ex-approved and industrial plugbox with PTT
- ✓ Low smoke and halogen free cable
- ✓ Designed for Turbine Ex explosion-proof and industrial intercoms



IP54



ICX-AlphaCom



Exigo

## Description

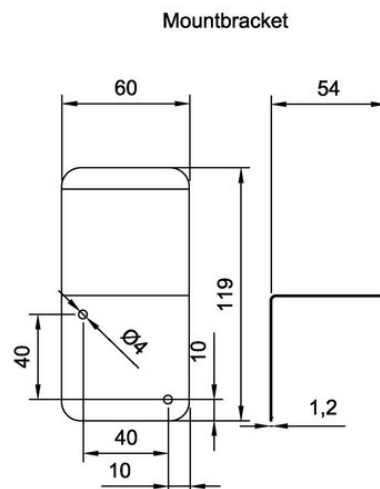
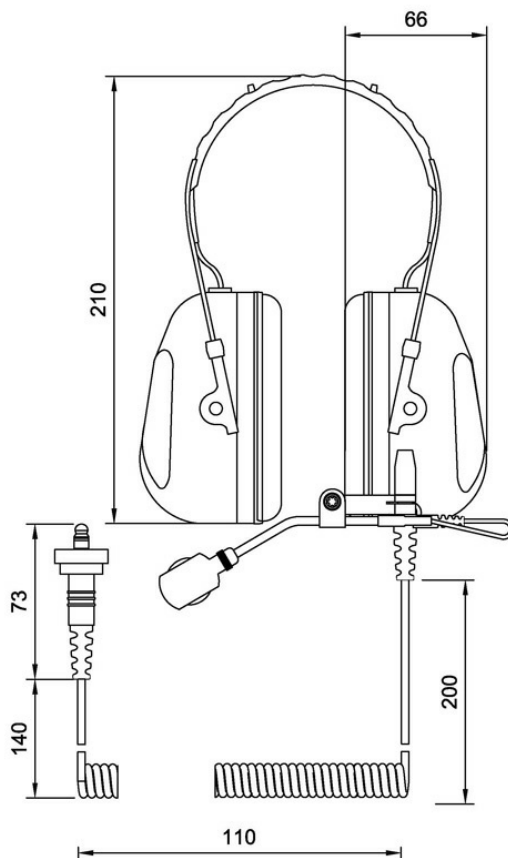
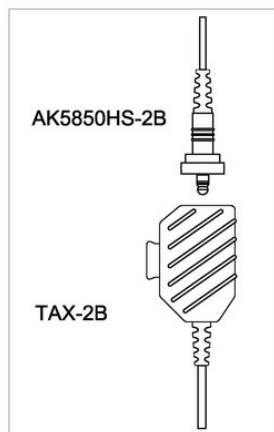
The AK5850H is a high-quality industrial Ex-approved headset designed for use in rugged and hazardous environments. It features an adjustable boom microphone and a short curly cable terminated with a 4-pole Nexus plug.

### Zenitel Turbine Ex | Industrial Intercom use

When used with Zenitel Turbine Ex or Industrial Intercom stations, the headset must be connected via the TAX-2B or TA-22B cable with plugbox. This cable assembly provides the required interface between the headset and the intercom station. In this configuration, the AK5850H supports HD Voice functionality with compatible Zenitel intercom systems.

Used together with the TAX-2B or TA-22B cable and plugbox with PTT, the solution provides reliable communication with an operating range of over 10 meters, depending on installation and operating conditions.

## Technical Dimensions



# Specifications

## MECHANICAL

Weight	400 g
--------	-------

## ENVIRONMENTAL

Operational Temperature	-40°C to +60°C
-------------------------	----------------

Ingress Protection (IP)	IP-54
-------------------------	-------

## ELECTRICAL

Impedance	230 ohm
-----------	---------

Sensitivity (mic)	4 mV / 220 ohm
-------------------	----------------

## ACOUSTICAL

Frequency Response	90-7000 Hz
--------------------	------------

Noise Reduction	-12dB @ 1kHz
-----------------	--------------

## SOUND ATTENUATION

Above 1kHz:	-35 to -40 dB
-------------	---------------

500-1000 Hz	-27.5 to -35 dB
-------------	-----------------

125-500 Hz	-15 to -27.5 dB
------------	-----------------

H84	31 dB (with in-ear monitor: 39 dB)
-----	---------------------------------------

M84	26 dB (with in-ear monitor: 37 dB)
-----	---------------------------------------

L84	20 dB (with in-ear monitor: 33 dB)
-----	---------------------------------------

SNR84	29 dB (with in-ear monitor: 40 dB)
-------	---------------------------------------

NRR	21 dB
-----	-------

CERTIFICATIONS

CENELEC safety standards	EN 60079-0: 2012 + A11: 2013 & EN 60079-11: 2012
IEC safety standards	IEC 60079-0: 2011, IEC 60079-11: 2011
Marking	II 2G Ex ib IIC T4 Gb, -40°C ≤ Ta ≤ +60°C
ATEX certificate	Nemko 03ATEX1351
IECEX certificate	IECEX PRE 15.0063

Accessories



TAX-2B  
Ex-Approved Plugbox & Cable for Headset with PTT



TA-22B  
Industrial Plugbox & Cable for Headset with PTT



Headset Stowage Bracket  
Headset stowage Bracket for Wall mounting



Spare Boom Microphone for Headset  
Spare Boom Microphone for all A-Kabel type Headsets

Used With



EAPFX-6-V2  
Exigo Industrial Ex Access Panel, 6 Buttons - V2



EAPFX-1-V2  
Exigo Industrial Ex Access Panel - V2



TFIX-1-V2  
Ex IP Intercom Station- full keypad



TFIX-2-V2  
Ex IP Intercom Station with 6 buttons



#### TFIX-3-V2

Ex IP Intercom Station with 3 buttons



#### TFIE-1

IP and SIP Intercom



#### TFIE-2

IP and SIP Intercom



#### EAPII-1

Exigo Industrial Access Panel, 1 Button



#### EAPII-6

Exigo Industrial Access Panel, 6 Buttons



#### TFIE-6

IP and SIP Intercom