

Hearing Protection with flexible Microphone

Specification	Description					
Overview	Active Hearing Protection headset with built-in communication capabilities ✓ Two ear muffs with padding and noise attenuation foam ✓ Ear cup height adjustment system for optimal wearing position ✓ Flexible microphone attached to the left muff ✓ Downlead cable with anti-tearing, LEMO connecting plug (green)					
Interoperability	 ✓ Operates with an MSA Push-to-Talk (PTT) module enabling connection to the PMR rage. ✓ Connection through LEMO plug with color codification. ✓ PTT module with yellow connector: non ATEX system. ✓ PTT module with green connector: ATEX system (for use with approved ATEX radios or provided in the p					
Technical Specifications	 ✓ Microphone: Noise cancelling electret, 100Hz-10kHz, sensitivity -61 dB (nominal) at 50% humidity ✓ Loudspeaker: 32 Ω, 100Hz-20kHz, max. power 100mW ✓ Material: Cup: PC/ABS, Cushion: Synthetic leather ✓ Downlead cable: Fire retardant, shielded cable ✓ Battery: 2xAAA batteries, Duracell, Varta, Energizer (ATEX versions) ✓ Surrounding sound amplifiers: Omnidirectional, sensitivity -38±2dB, max input 110dB S.P.L ✓ Operation temperature: -20°C to +65°C, humidity <98% 					
Weight	✓ 390 g ± 10g (including batteries)					
Testing / Approvals	 ✓ EMC performance: ESD/EMI: 10 V/m ✓ Fully watertight – equivalent to IP67 ✓ ATEX II 2G Ex ib IIC T4 (when used with an ATEX certified PTT module) ✓ SNR value: 26 dB; H=26, M=23, L=18 (attenuation data in appendix) 					
Ordering Information	Part number (when ordered separately from the helmet): ✓ GA010002D3X – Headset, Gallet F1XF, Hearing Protection, boom microphone					



Headset general view



Ambient sound microphone



Headset mounted inside the helmet



Battery compartment



Connecting plug, headset to PTT



Button (on/off and Volume +/-)



Hearing Protection with Bone conductive Microphone

Specification	Description
Overview	Active Hearing Protection headset with built-in communication capabilities ✓ Two ear muffs with padding and noise attenuation foam ✓ Built-in, level dependant function with amplification volume adjustment ✓ Ear cup height adjustment system for optimal wearing position ✓ Flexible microphone attached to the left muff ✓ Downlead Cable with anti-tearing, NEXUS connecting plug
Interoperability	 ✓ Operates with various Push-to-Talk (PTT) modules, such as MSA HandyCom, enabling connection to the PMR radio ✓ Connection through a NEXUS type plug
Technical Specifications	 Microphone: Accelerometer, 100 Hz – 10 kHz, Sensitivity 1 V / 0.5G Loudspeaker: 32 Ω, 100Hz-20kHz, max. power 100mW Material: Cup: PC/ABS, Cushion: Synthetic leather Downlead cable: Fire retardant, shielded cable Battery: 2xAAA batteries, Duracell, Varta, Energizer (ATEX versions) Surrounding sound amplifiers: Omnidirectional, sensitivity -38±2dB, Max input 110dB S.P.L Operation temperature: -20°C to +65°C, humidity < 98%
Weight	✓ 370 g ± 10g (including batteries)
Testing / Approvals	 ✓ EMC performance: ESD/EMI: 10 V/m ✓ Fully watertight – equivalent to IP67 ✓ SNR value: 26 dB; H=26, M=23, L=18 (attenuation data in appendix)
Ordering Information	Part number (when ordered separately from the helmet): ✓ GAY30103232123000X – Headset, Gallet F1XF, Hearing Protection, bone conductive



Heasdet general view



Ambient sound microphone



Headset mounted in helmet



Battery compartment



Connecting NEXUS plug, headset to PTT



Button (on/off and Volume +/-)



Hearing Protection with level dependant function

Specification	Description						
Overview	Active circum aural headset enabling the user to be in contact with the surroundings but still protect the hearing Two ear muffs with padding and noise attenuation foam Built-in, level dependant function with amplification volume adjustment Ear cup height adjustment system for optimal wearing position						
Technical Specifications	 ✓ Loudspeaker: 32 Ω, 100Hz-20kHz, max. power 100mW ✓ Material: Cup: PC/ABS, Cushion: Synthetic leather ✓ Battery: 2xAAA batteries, Duracell, Varta, Energizer (ATEX versions) ✓ Surrounding sound amplifiers: Omnidirectional, sensitivity -38±2dB, max input 110dB S.P.L ✓ Operation temperature: -20°C to +65°C, humidity <98% 						
Weight	✓ 330 g ± 10g (including batteries)						
Testing / Approvals	 ✓ EMC performance: ESD/EMI: 10 V/m ✓ Fully watertight – equivalent to IP67 ✓ ATEX approval according to directive ✓ ATEX level: II 2G Ex ib IIC T4 ✓ SNR value: 26 dB; H=26, M=23, L=18 (attenuation data in appendix) 						
Ordering Information	Part number (when ordered separately from the helmet): ✓ GA010002E3X – Headset, Gallet F1XF, Hearing Protection						



Headset general view



Ambient sound microphone



Headset mounted in helmet



Battery compartment



Button (on/off and Volume +/-)



Communication Accessories - Technical Datasheet



Appendix: Attenuation Data

The tests were made for the 3 following references:

GA010002E3X - Active listening headset, Gallet F1XF

GA010002D3X - Hearing Protection with boom microphone

GA010002C3X – Hearing protection with bone conductive microphone (replaced by GAY30103232123000X)

When we made the tests, the hearing protection with the new bone conductive microphone (GAY30103232123000X) did not yet exist but the ear muffs are the same (only the bone conductive sensor changed) so the values of attenuation data should be comparable with the ones shown below.

Tested to EN 352-3:2002, §4.3.12; EN 13819-1, § 4.1.3.10, EN 13819-2, §4.2

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean attenuation, M _f (dB)	18,4	18,4	17,9	24,4	28,5	26,8	48,6	49,6
Stand. Deviation, sf (dB)	3,6	3,8	2,8	2,7	2,8	4,0	2,4	2,4
APV (M _f - S _f) (dB)	14,8	14,6	15,1	21,7	25,7	22,8	46,2	47,2

SNR=26 dB; H=26 dB, M=23 dB, L=18 dB