

Gallet F1XF Hearing Protection

Communication Accessories Technical Datasheet



Flexible Microphone

Specification	Description
OVERVIEW	Active Hearing Protection headset with built-in communication capabilities <ul style="list-style-type: none">• 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
INTEROPERABILITY	<ul style="list-style-type: none">• Operates with an MSA Push-to-Talk (PTT) module or MSA HandyCom enabling connection to the PMR radio• Connection through a NEXUS type plug with MSA HandyCom RSM
TECHNICAL SPECIFICATIONS	<ul style="list-style-type: none">• 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\pm2dB, max input 110dB S.P.L• Operation temperature: -20°C to +65°C, humidity <98%
WEIGHT	390g \pm 10g (including batteries)
TESTING / APPROVALS	<ul style="list-style-type: none">• 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): <ul style="list-style-type: none">• GAY30211222123000X – Headset, GALLET F1XF, Hearing Protection, boom microphone, NEXUS plug



Headset mounted inside the helmet



Headset general view

WHEN YOU GO IN, WE GO IN WITH YOU.

Bone Conductive Microphone

Specification	Description
OVERVIEW	Active Hearing Protection headset with built-in communication capabilities <ul style="list-style-type: none"> 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 Download Cable with anti-tearing, NEXUS connecting plug
INTEROPERABILITY	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 Download 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	370g ± 10g (including batteries)
TESTING / APPROVALS	<ul style="list-style-type: none"> 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): <ul style="list-style-type: none"> GAY30103222123000X – Headset, GALLET F1XF, Hearing Protection, bone conductive



Gallet F1XF Hearing Protection Bone Microphone

Appendix: Attenuation Data

The tests were made for the 3 following references:

- GA010002D3X: Hearing Protection with boom microphone (replaced by GAY30211222123000X)
- GA010002C3X – Hearing protection with bone conductive microphone (replaced by GAY30103222123000X)

When we made the tests, the hearing protection had different part numbers (with LEMO plug) but the ear muffs are the same so the values of attenuation data for GAY30211222123000X and GAY30103222123000X should be comparable with GA010002D3X and GA010002C3X

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, Mf (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 (Mf - sf) (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



MSA—The Safety Company

Established in 1914, MSA Safety Incorporated is the global leader in the development, manufacture, and supply of safety products that protect people and facility infrastructures. Many MSA products integrate a combination of electronics, mechanical systems, and advanced materials to protect users against hazardous or life-threatening situations. The company's comprehensive product line is used by workers around the world in a broad range of markets, including the oil, gas, and petrochemical industry, the fire service, the construction industry, mining, and the military. MSA's core products include self-contained breathing apparatus, fixed gas and flame detection systems, portable gas detection instruments, industrial head protection products, firefighter helmets and protective apparel, and fall protection devices. With 2022 revenues of \$1.5 billion, MSA employs approximately 5,000 people worldwide. The company is headquartered north of Pittsburgh in Cranberry Township, PA, and has manufacturing operations in the United States, Europe, Asia, and Latin America. With more than 40 international locations, MSA realizes approximately half of its revenue from outside North America. For more information visit MSA's web site at www.MSAsafety.com.

Our Mission

MSA's mission is to see to it that men and women may work in safety and that they, their families, and their communities may live in health throughout the world.

MSA: WHEN YOU GO IN, WE GO IN WITH YOU.

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.

MSA operates in over 40 countries worldwide. To find an MSA office near you, please visit **[MSAsafety.com/offices](https://us.msasafety.com/offices)**.