

Fire Speaker Microphone

The Fire Speaker Microphone

- Is an advanced firefighting communications device with superior audio, temperature, and environmental performance
- Provides communications with the XL-200P, Unity[®] XG-100P, XG-75, P7300, P5500, P5400, P5300, and XG-25P Portables
- Operates in Immediate Danger to Life and Health (IDLH) environments and fire service applications



Designed with input from fire agency professionals, the Fire Speaker Microphone offers advanced features and ruggedized hardware to meet the unique requirements and extreme environmental conditions experienced by firefighters.

Loud and Powerful Audio

The large 45-mm, high-performance speaker produces extremely loud and clear audio to overcome fire scene noise and penetrate safety equipment. With its customized design for firefighters, the mic is curved to direct audio up toward the user instead of out and away as with other speaker microphones.

Active noise cancellation embedded in the speaker microphone suppresses background noise and optimizes the quality of transmitted audio. Users may program whether the top microphones or the bottom microphones are primary.

Advanced Features

The Fire Speaker Microphone delivers the advanced features requested by firefighters to

enable them to operate safely and effectively.

- Programmable Dual-PTT button for protection against accidental keying
- Simple controls are sized and shaped to accommodate gloved hand use in zero-visibility situations
- Easy access to Hi/Low volume control
- Innovative top and bottom microphone ports and speaker grill are engineered to drain water (patent pending)
- Emergency strobe light linked to man-down and large, easy-to-find Emergency button aid in locating the firefighter in dark, smoky conditions
- Man-down feature detects firefighter's lack of movement and transmits Emergency signals to other group members

Operation at Extreme Temperatures

Firefighters need equipment that can withstand elevated tempera-

tures and adverse conditions. The Harris Fire Speaker Microphone has advanced next-generation technology and is one of the first public safety microphones to perform in the intense temperature environments described by NIST1477. This best-in-class microphone is engineered with special high temperature materials (including the coiled cord) and design features that allow it to perform in extreme heat to provide superior communications and increased safety for firefighters.

Rugged Construction

Rugged construction enables the Fire Speaker Microphone to operate in severe environmental conditions. The microphone is IP68 rated for dust tight and immersion up to 1 meter. It meets MIL-STD-810G specifications for blowing rain, salt fog, humidity, blowing dust, solar radiation, low pressure, high and low temperature, temperature shock, vibration, shock, and explosive atmospheres.

General Specifications

Dimensions without Cord (H x W x D):

4.8 x 2.9 x 1.8 in. (122 x 74 x 46 mm)

Approximate Weight (oz):

10.5

Operating Temperature Range*:

-4 to +203°F (continuous)
 (-20 to +95°C) (continuous)
 +212°F (100°C) for 25 minutes – Meets NIST Class I
 +320°F (160°C) for 15 minutes - Meets NIST Class II

*Ranges apply to all components of the device, including the speaker microphone, the coiled cord, and the connectors

Storage Temperature Range:

-40 to +185°F
 (-40 to +85°C)

Cable:

36-inch extended coil cord, shielded

Cable Pull (lb):

20

Cable Flex (cycles):

25,000

PTT Operations:

1 million nominal

Clothing Clip:

Rotates 360° with positive detents every 45°

Microphone Specifications

Type:

MicroElectrical-Mechanical System (MEMS)

Noise Cancellation (dB):

20 (typical)

Frequency Range (Hz):

300 to 3800

Speaker Specifications

Type:

45 mm, High Temperature

Sound Pressure Level:

Unity XG-100P: 102 dbSPL maximum
 XG-75: 104 dbSPL maximum

Frequency Range (Hz):

300 to 3800

Impedance:

8 ohm

Power Handling (Wrms):

>2

Fire Speaker Mic Option Numbers

XL-200P	XL-AE1T
Unity XG-100P	XP-AE1T
XG-75	EV-AE1U
P7300	EV-AE1U
P5500	EX-AE1U
P5400	EX-AE1U
P5300	EX-AE1U
XG-25P	DP-AE1U

Environmental Specifications

Standard	Parameter	Methods & Procedures
MIL-STD-810G	Low Pressure	500.5 PI, PII
	High Temperature (Storage/Op)	501.5 PI, PII/Climate A2
	Low Temperature	502.5 PI, PII/Climate C1
	Temperature Shock	503.5 PI (C)
	Fluid Contamination	504.1 P1
	Solar Radiation (240 hours)	505.5 PI/Cat. A1
	Blowing Rain	506.5 PI
	Humidity	507.5 PII
	Salt Fog	509.5 PI
	Blowing Dust	510.5 PI, PII
	Explosive Atmosphere	511.5 PI
	Sinusoidal Vibration	514.6 PI/Cat. 4, PII/Cat. 5
	Shock (Drop)	516.6 PIV
IEC60529	Dust-tight, Continuous Immersion	IP68

Regulatory Specifications

Meets FCC Part 15, Class B for radiated emissions

Designed and Assembled in the USA

