

# Motorola Revolutionary Remote Speaker Microphones

Built to withstand severe weather conditions that is ideal for private security, construction, transportation, hospitality, as well as public safety professionals.



Designed to dramatically reduce background wind noise and perform in extremely wet conditions – Finally, microphones as tough as you are



### Decreased wind noise even in gusty, stormy conditions.

These new remote speaker microphones for Motorola two-way radios boast a revolutionary Windporting feature that dramatically lessens background noise from high winds and other severe weather conditions. Audio can pass through the speaker grill even when the microphone port is blocked by water. Now public safety professionals can be more confident than ever of clear, understandable communication when Mother Nature is uncooperative.









#### **IP** Code

The IP Code is a designation that indicates the level, or amount, of the protection. The IP Code designation consists of the letters **IP** (International Protection) followed by two numerals –



## Choose the convenience of an ear jack unit with compatible earpieces available...or the protection of a higher IP57 rating.

#### **Two Models Available**

These advanced Windporting remote speaker microphones are offered in two compact designs to match user needs:

#### 1 - Ear Jack Units for Discreet Communication

The jack is located on the microphone head to provide private listening without broadcast of message. All ear jack microphones accept Motorola audio earpieces PMLN4620, RLN4941, AARLN4885 and WADN4190.

These compact microphones have a Windporting feature that can help reduce background noise at school rallies, conventions, outdoor events and on the retail floor.

#### Ideal for Transportation, Hospitality and Service Professionals:

PMMN4013	<ul> <li>Remote Speaker Microphone with Ear Jack</li> </ul>
PMMN4021	<ul> <li>Remote Speaker Microphone with Ear Jack</li> </ul>
PMMN4022	- Remote Speaker Microphone with

Ear Jack PMMN4027

Workers: PMMN4029

**PMMN4023** 

#### 2- Higher IP57 Rating Microphones for Extra Protection

IP57 is a higher rating than the standard IP54 that helps provide first responders with high reliability in emergency situations. The number "5" stands for the dust intrusion rating, or the capacity to withstand the effects of fine, abrasive dust particles. The "7" means a higher water intrusion rating. The head of the microphone has been tested for 30 minutes of submersion at 1 metre, but the connector is not similarly rated.

These sturdy microphones are the must-have communication audio accessories for those working at the job site or in the field - where the Windporting feature makes the most sense.

**IP57** Rating

IP57 Rating

**IP57** Rating

- Remote Speaker Microphone with

- Remote Speaker Microphone with

- Remote Speaker Microphone with

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### Remote Speaker Microphones With Ear Jack and Higher IP57 Rating

### **Specifications**

	PMMN4013/PMMN4021/PMMN4022	PMMN4023/PMMN4027/PMMN4029	Microphone Cor
ACOUSTICS			
Microphone Type	Omni directional	Omni directional	v Pl
Sensitivity:	-44dBV +/-2dBV, at 1kHz, 94dB SPL source,	-44dBV +/-2dBV, at 1kHz, 94dB SPL source,	GP300/GP88
	at mouth reference point	at mouth reference point	GP308/GP88s
Distortion (THD):	< 5% (TX) at 1kHz at rated audio	< 5% (TX) at 1kHz at rated audio	GP3188/GP3688
Speaker Diameter	45mm	45mm	
Output Power:	0.5W at rated audio	0.5W at rated audio	PI
Output Level:	90dB SPL typical, 200Hz - 3200Hz, at rated audio,	90dB SPL typical, 200Hz - 3200Hz, at rated audio,	ATS2500
	at 30cm from RSM	at 30cm from RSM	GP328/GP338
Maximum Output Level:	< 120dB SPL at maximum radio volume	< 120dB SPL at maximum radio volume	GP329/GP339
Frequency Response:	200Hz - 3200Hz	200Hz - 3200Hz	GP328LS/GP338LS
Distortion (THD):	< 15% (Rx) at 1kHz at rated audio	< 15% (Rx) at 1kHz at rated audio	LTR.PRO Series
Earpiece Type	3.5mm unthreaded jack, Receive	None	MTX900/960
Maximum Output Level:	< 118dB SPL at maximum radio volume	None	PTX700/760/780
Acoustic Feedback Distance:	35 feet typical, outdoors	35 feet typical, outdoors	
RSM BODY			 GP328Plus/338Plus
Dimensions: W x L x D	55 x 60 x 27mm	55 x 60 x 27mm	GP3298Plus/339Plus
(without Clothing Clip)	55 X 00 X 2711111	55 X 00 X 2711111	GP338XLS
Weight:	146.2 Grams (maximum)	188 Grams (maximum)	GL2000
Case Material:	Lexan 141R Polycarbonate	Lexan 141R Polycarbonate	PTX700Plus/760Plus
			PTX/00Plus/700Plus
POWER			Note: These RSMs are
Power Source:	Radio Battery	Radio Battery	associated Intrinsically
CONTROLS			
Push-to-Talk (PTT):	Side paddle mechanism activated via tact switch	Side paddle mechanism activated via tact switch	
CABLE			
Flex Life:	50,000 Cycles (minimum)	50,000 Cycles (minimum)	
Pull Strength:	40 Lbs, Minimum Tensile, In-Line	40 Lbs, Minimum Tensile, In-Line	
Accessory Connector Case:	Flame Retardant TPE/Black Shore A80	Flame Retardant Polycarbonate Black	and the second
			1600
ENVIRONMENTAL	2000 to . ( 000	2000 to	and the second second
Operating Temperature:	-30°C to +60°C	-30°C to +60°C	A CONTRACTOR
Storage Temperature:	-55°C to +85°C	-55°C to +85°C	1910
Thermal Shock:	-57°C to +80°C	-57°C to +80°C	100
Humidity:	90% - 95% Relative Humidity	90% - 95% Relative Humidity	14 A.
Dain	at +50°C for 8 hours	at +50°C for 8 hours	All Mer
Rain:	MIL 810F Method 506.4	MIL 810F Method 506.4	A BURNER
Salt/Fog:	MIL 810F Method 509.4 Procedure 1	MIL 810F Method 509.4 Procedure 1	
Dust: Vibration:	MIL 810F Method 510.4 Procedure 1	MIL 810F Method 510.4 Procedure 1	111 6
VIUI dliuit:	MIL 810F Method 514.5	MIL 810F Method 514.5	
Machanical Shack	Procedure 1, Category 24	Procedure 1 Category 24	1 8 1
Mechanical Shock:	MIL 810F Method 516.5 Procedure 1	MIL 810F Method 516.5 Procedure 1	13
Impact (grill):	1 1/4" diameter steel ball drop. Initial drop height is 30cm, then	1 1/4" diameter steel ball drop. Initial drop height is 30cm, then	C 199
FCD.	increase drop height by 10cm for at least 8 times @ 100cm.	increase drop height by 10cm for at least 8 times @ 100cm.	1
ESD:	IEC/EN61000-4-2	IEC/EN61000-4-2	44.0
IP Rating:	IP54	IP57 (head of Microphone)	



With Jack

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IP57 PMMN4029

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