

# NEW Motorola Remote Speaker Microphones Enhance Communication

Bringing more reliable performance to the retail, security, construction, education and hospitality industries as well as to public safety professionals.



# Put Advanced Windporting Technology in the Palm of Your Hand

## Hear The Difference Windporting Makes!

Discover for yourself how Motorola Windporting technology produces greater clarity. We've recorded the same transmission under simulated windy conditions two ways:

The first communication you hear is with a conventional remote speaker microphone. The second communication features an advanced remote speaker microphone with Windporting technology.



## 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.

The clarity of these microphones can help public safety professionals communicate more clearly and the higher IP57 Rating allows construction workers to get through even on dusty and wet construction sites.





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:

#### Ear Jack Units for Discreet Communication

The jack is located on the microphone head to eliminate unnecessary long wires. All ear jack microphones accept Motorola audio earpieces MDRLN4941, MDRLN4885, WADN4190 and MDPMLN4620.

#### Higher IP57 Rating Microphones for Safety

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.



MDRLN4941



MDRLN4885



WADN4190



MDPMLN4620

### Educators, Retail and Hospitality Professionals

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

- MDPMMN4013 – Remote Speaker Microphone with Ear Jack
- MDPMMN4029 – Remote Speaker Microphone with IP57 Rating

### Construction, Public Safety and Utility Workers

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.

- MDPMMN4021 – Remote Speaker Microphone with Ear Jack
- MDPMMN4022 – Remote Speaker Microphone with Ear Jack
- MDPMMN4023 – Remote Speaker Microphone with IP57 Rating
- MDPMMN4027 – Remote Speaker Microphone with IP57 Rating

### Microphone Compatibility Guide

	MDPMMN4013	MDPMMN4029
CP040	•	•
CP140/160/180	•	•
P040/080	•	•
P020/030	•	•
GP300/600	•	•
P110	•	•
GP68	•	•
	MDPMMN4021	MDPMMN4027
GP320/340/360/380	•	•
GP140	•	•
GP640/680/1280	•	•
GP240/280	•	•
GP540/580	•	•
	MDPMMN4022	MDPMMN4023
GP344/388	•	•
GP644/688	•	•

Finally, microphones as tough as you are.

# Remote Speaker Microphones

## With Ear Jack and Higher IP57 Rating

### Specifications

	MDPMMN4013/MDPMMN4021/MDPMMN4022	MDPMMN4023/MDPMMN4027/MDPMMN4029
<b>ACOUSTICS</b>		
<b>Microphone Type</b>	Omni directional	Omni directional
Sensitivity:	-44dBV +/-2dBV, at 1kHz, 94dB SPL source, at mouth reference point	-44dBV +/-2dBV, at 1kHz, 94dB SPL source, at mouth reference point
Distortion (THD):	< 5% (TX) at 1kHz at rated audio	< 5% (TX) at 1kHz at rated audio
<b>Speaker Diameter</b>	45mm	45mm
Output Power:	0.5W at rated audio	0.5W at rated audio
Output Level:	90dB SPL typical, 200Hz - 3200Hz, at rated audio, at 30cm from RSM	90dB SPL typical, 200Hz - 3200Hz, at rated audio, at 30cm from RSM
Maximum Output Level:	< 120dB SPL at maximum radio volume	< 120dB SPL at maximum radio volume
Frequency Response:	200Hz - 3200Hz	200Hz - 3200Hz
Distortion (THD):	< 15% (Rx) at 1kHz at rated audio	< 15% (Rx) at 1kHz at rated audio
<b>Earpiece Type</b>	3.5mm unthreaded jack, Receive	None
Maximum Output Level:	< 118dB SPL at maximum radio volume	N/A
Acoustic Feedback Distance:	35 feet typical, outdoors	35 feet typical, outdoors
<b>RSM BODY</b>		
Dimensions: W x L x D (without Clothing Clip)	55 x 60 x 27mm	55 x 60 x 27mm
Weight:	146.2 Grams (maximum)	188 Grams (maximum)
Case Material:	Lexan 141R Polycarbonate	Lexan 141R Polycarbonate
<b>POWER</b>		
Power Source:	Radio Battery	Radio Battery
<b>CONTROLS</b>		
Push-to-Talk (PTT):	Side paddle mechanism activated via tact switch	Side paddle mechanism activated via tact switch
<b>CABLE</b>		
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
<b>ENVIRONMENTAL</b>		
Operating Temperature:	-30°C to +60°C	-30°C to +60°C
Storage Temperature:	-55°C to +85°C	-55°C to +85°C
Thermal Shock:	-57°C to +80°C	-57°C to +80°C
Humidity:	90% - 95% Relative Humidity at +50°C for 8 hours	90% - 95% Relative Humidity at +50°C for 8 hours
Rain:	MIL 810F Method 506.4	MIL 810F Method 506.4
Salt/Fog:	MIL 810F Method 509.4 Procedure 1	MIL 810F Method 509.4 Procedure 1
Dust:	MIL 810F Method 510.4 Procedure 1	MIL 810F Method 510.4 Procedure 1
Vibration:	MIL 810F Method 514.5 Procedure 1, Category 24	MIL 810F Method 514.5 Procedure 1 Category 24
Mechanical Shock:	MIL 810F Method 516.5 Procedure 1	MIL 810F Method 516.5 Procedure 1
Impact (grill):	1 1/4" diameter steel ball drop. Initial drop height is 30cm, then increase drop height by 10cm for at least 8 times @ 100cm.	1 1/4" diameter steel ball drop. Initial drop height is 30cm, then increase drop height by 10cm for at least 8 times @ 100cm.
ESD:	IEC/EN61000-4-2	IEC/EN61000-4-2
IP Rating:	IP54	IP57

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