# ANC REMOTE SPEAKER MICROPHONE SPECIFICATIONS

## GENERAL

<table>
<thead>
<tr>
<th>Part Number</th>
<th>PMMN4093</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (RSM head only)</td>
<td>68mm (W) x 94mm (H) x 29mm (D) (without clip)</td>
</tr>
<tr>
<td>Weight (complete kit)</td>
<td>~290 grams</td>
</tr>
<tr>
<td>Secondary Accessory Interface</td>
<td>The APC4 4-pole Nexus jack has the following certified ATEX/IECEx interface parameters: Uo = 7 V, Io = 0.160 A, Po = 0.275 W, Co = 1 μF, Lo = 1 mH</td>
</tr>
<tr>
<td>Noise Cancellation</td>
<td>Active Noise Cancelling</td>
</tr>
</tbody>
</table>

## SPEAKER

- Diameter: 36mm
- Impedance: 16 ohm
- Rated Output Level: 50 dB SPL, typical at 0.5W, 30 cm
- Maximum Output Level: 90 dB SPL, 94 dB phon, 30 cm
- Windporting: Yes

## CABLE

- Length: 390mm (Resting Position), 1200 mm (Fully Stretch)
- Flex Life: 100,000 Cycles (Minimum), Bend 90° Left-Right and Front-Back with 2lbs Load
- Pull Strength: 40 lbs (Minimum)
- Cable Jacket: UL94 V-0 Compliant

## MICROMECHONICAL

### MICROPHONE

- Type: Electret Condenser Microphone
- Sensitivity: -44 ± 3 dBV at 1 kHz
- Distortion (THD): < 0.3 % at 1 kHz
- Noise Cancellation: Active Noise Cancelling

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## CONTROLS

- Top: Orange Programmable Button
- Side: Side Push-To-Talk (PTT) (525 000 Cycles) and One Black Programmable Button
- Front: Front Push-To-Talk (PTT) (ELS 500-Cycle)
- Volume: Hi-Lo

## ATMENRAL

### 1/2

- Gas Rating: ATEX: II 2G Ex ib IIC T4 Gb; IECEx: Ex ib IIC T4 Gb
- Dust Rating: ATEX: II 2D Ex ib IIIC T90°C Db; IECEx: Ex ib IIIC T90°C Db
- Mining Rating: ATEX: IMA Ex ia I Ma; IECEx: Ex ia I Ma
- Ambient Temperature: Ta: -20°C to +55°C
- ATEX/IECEx Rating: Ex ia I Ma, IP67

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For more information on the ANC Remote Speaker Microphone, please visit [www.motorolasolutions.com/MTP8000Ex](http://www.motorolasolutions.com/MTP8000Ex)
The active noise cancellation technology ensures your voice, not the surrounding noise, goes through clearly. Likewise, the speaker has been designed to let users hear above the noise, which can be difficult in harsh environments.

**COMMUNICATE CLEARLY IN WINDY AND WET CONDITIONS**

Designed for the MTP8000Ex Series, the ANC RSM also incorporates the Windporting feature present in many of Motorola’s remote speaker microphones. Windporting reduces the adverse effect of wind noise and provides intelligible audio for users working under windy conditions. This is especially beneficial for workers in oil refineries which are frequently located near windy sea shore conditions.

Firefighters don’t need to worry any longer about water-clogged microphones or speaker grills that prevent communication from getting through. Water drains quickly from the ANC RSM, ensuring clear audio so that users can focus on critical tasks.

**DESIGNED WITH THE RIGHT FIT AND FEEL**

The ANC RSM is designed for ease of use in the toughest conditions. Exaggerated controls, including large glove friendly front and side Push-To-Talk buttons, allow you to transmit with ease even when wearing protective gear and other equipment that can make reaching for a side Push-To-Talk challenging.

The rugged housing includes emergency and volume controls that are large for quick access but protected to avoid accidental activation. Now you can focus on the job at hand without worrying about fumbling with your equipment.

**VERSATILITY MEETS PERFORMANCE**

The ANC RSM is equipped with two audio jacks, allowing you to use your RSM with compatible headsets. For users preferring a simple earpiece, a 3.5mm-plug earpiece is available with the ANC RSM. The RSM has a unique sliding cover that ensures the 3.5mm audio jack is protected when not in use, preventing any debris or liquids from entering the device.

Further, the Nexus-jack has an open ATEX/IECEx interface, enabling third party headsets with compatible interfaces, such as the Draeger FPS-Com-Plus, to be used safely. Select from a variety of Peltor Headsets that have been certified with the ANC RSM to ensure optimum performance and audio quality. Any ATEX/IECEx certified accessory with a matching set of input parameters published in the certificates can be safely connected.

In harsh environments, you want to talk and hear clearly above the noise. Whether you are in a noisy oil refinery or in the midst of fighting a fire, you can't afford to lose seconds struggling to get your message through. The Active Noise Cancelling (ANC) Remote Speaker Microphone (RSM) has been designed to withstand the toughest environments, while providing clear communications.