MOTOTRBO™
DP4000 Ex SERIES
ATEX RADIO
KEEPING YOU SAFER IN THE TOUGHEST ENVIRONMENTS
MOTOTRBO ATEX SOLUTIONS: THE PROFESSIONAL CHOICE FOR DANGEROUS AREAS

Threats from explosive gas, combustible dust or chemical vapours, from an oil rig to an open mine, your workers confront them daily. Safe, reliable communication is absolutely critical in such dangerous environments. That’s where the power and performance of MOTOTRBO digital radios stand out.

The MOTOTRBO DP4000 Ex Series combines the best of two-way radio functionality with the latest digital technology. It integrates voice and data seamlessly, offers enhanced features that are easy to use, and delivers increased capacity to efficiently connect all your crews. With exceptional voice quality, long battery life and ATEX-rated for safety, the DP4000 Ex Series keeps your workers connected safely and productively, wherever the job takes them.

**TALK AND HEAR CLEARLY OVER EXCESSIVE NOISE**

**DP4000 Ex SERIES**

These high-performing portables have the highest ATEX gas explosion group rating. Ideal for hazardous work with loud noise, long shifts, rough weather and dangerous conditions including combustible dust, explosive chemicals, gas leaks, flammable hydrocarbons and more.

Get all the benefits of MOTOTRBO digital technology, including greater capacity, clearer audio and long battery life. Plus radios and accessories that are ATEX-certified intrinsically safe.

**DP4401 Ex** - Rugged, easy to use, non-display model

**DP4801 Ex** - Adds a full keypad and large colour display for access to advanced features like texting and caller ID
SO RUGGED, IT WITHSTANDS THE WORST
The DP4000 Ex Series is so rugged and durable, it meets the most stringent standards and has the highest ATEX rating. Whether working in an oil refinery, chemicals factory or mine, dust and water can damage radios, but the DP4000 Ex Series is designed to withstand the worst. It meets or exceeds MIL-STD-810 for exceptional durability and is IP67 rated* to keep out damaging water and dust. The DP4000 Ex Series has also been subjected to Motorola’s unique Accelerated Life Test to simulate five years of hard use.

EASY TO OPERATE
The DP4000 Ex Series features large PTT, volume, channel knobs and programmable buttons that are easy to use, even when wearing gloves. The large, colour display (DP4801 Ex only) and bright LED show radio status information at a glance. Plus the prominent orange emergency button enables workers to quickly call for assistance when needed.

KEEP CREWS COMMUNICATING, EVERYWHERE
MOTOTRBO’s IP Site Connect uses the Internet to extend coverage to workers anywhere in the world and scalable, single-site Capacity Plus expands capacity to over 1,000 users. Linked Capacity Plus combines the high user-density call management of Capacity Plus with the wide area coverage of IP Site Connect to connect crews at various locations affordably.

Use Motorola’s Application Developer Program to adapt the DP4000 Ex Series to your unique needs in the future – from location tracking using the built-in GPS receiver to text messaging or call logging and recording. When you want to share information or pinpoint crew locations, access all the right applications on one device.

WORK SAFELY, FROM PIPELINE TO POWER PLANT
Everything about the DP4000 Ex Series is designed for worker safety. Loud, clear performance and innovative features like Intelligent Audio and Transmit Interrupt help ensure messages get through in the noisiest environments. And like the radio, Motorola’s audio and energy accessories meet the most stringent ATEX standards.

An integrated man-down and lone worker feature sends an instant alert if a mishap occurs. And the bright blue colour helps ensure workers can easily identify and carry only ATEX-approved radios into hazardous environments.

EXTEND SAFETY TO LONG SHIFTS AND NOISY AREAS WITH ATEX-CERTIFIED ACCESSORIES
From the drilling platform to the oil refinery, you deal with extremes - that’s why it is critical to use the only ATEX accessories designed to withstand the perils and work with these MOTOTRBO ATEX portables.

BE IN THE CLEAR WITH AN IMPRES RSM
The IMPRES Remote Speaker Microphone (RSM) ensures hassle free communication. Along with IMPRES audio, this microphone features Windporting which makes it easy to use in all weather conditions.

PELTOR™ HEADSETS HANDLE TOUGH SHIFTS, HEAD ON
These heavy duty headsets are ATEX-certified for extreme conditions and comfortable for long shifts. Choose from the standard headset to the Tactical XP headset that allows you to control the volume to accommodate the level of ambient noise you must be alert to. These headsets are available as over-the-head or attach-to-hardhat models.

IMPRES™ BATTERIES AND CHARGERS
Our high-capacity IMPRES battery maximizes talk time and optimizes battery cycle life – automatically.

Only IMPRES batteries can be charged 150 additional times as compared to a standard battery – a 43% increase in charge cycles. This means if you charge your radios two to three times a week, you’ll get more than an extra year out of every IMPRES battery.

DURABLE CARRY CASES
High quality leather carry cases are designed to withstand harsh conditions in hazardous environments. Swivel belt loop cases keep the case secure while allowing the radio to swing freely as you move.

PUT THE DP4000 Ex SERIES TO WORK
DIGITAL PERFORMANCE
DP4000 Ex meets the ETSI DMR Standard to deliver integrated voice and data, clearer voice communications, and up to 40% longer battery life than analogue.

BUILT TO LAST
Meets IP67 specifications* to withstand dust and immersion in 1 meter of water for 30 minutes.

EXCEPTIONAL AUDIO
Hear and speak clearly in loud environments, negate background noise from heavy equipment, engines and trucks.

EASY TO USE
Ergonomically designed for ease of use, with customisable buttons and an intuitive user interface.

COMPLETE ATEX-CERTIFIED SOLUTION
IMPRES™ smart audio and energy accessories meet the same tough specs, for a complete system you can rely on.
### General Specifications

<table>
<thead>
<tr>
<th>DP4081 Ex Display Portable</th>
<th>DP4041 Ex Non-DISPLAY PORTABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Band</td>
<td></td>
</tr>
<tr>
<td>UHF B1 (403-470MHz) and VHF (136-174MHz)</td>
<td>UHF B1 (403-410MHz) and VHF (136-174MHz)</td>
</tr>
<tr>
<td>Zone Capacity</td>
<td>250</td>
</tr>
<tr>
<td>Max. No. of Conv. Channels or Personality Capacity</td>
<td>32</td>
</tr>
<tr>
<td>Dimensions (W x H x L) with Li-ion battery</td>
<td>138.5 x 56.7 x 39.8mm</td>
</tr>
<tr>
<td>Power Supply</td>
<td>7.4 V Nominal</td>
</tr>
<tr>
<td>FCC Description</td>
<td></td>
</tr>
<tr>
<td>UHF: AB299FT4091 VHF: AB299F T3009</td>
<td>UHF: AB299FT4091 VHF: AB299F T3009</td>
</tr>
<tr>
<td>Programmable Buttons</td>
<td>5</td>
</tr>
<tr>
<td>IC Description</td>
<td></td>
</tr>
<tr>
<td>Gas Rating</td>
<td></td>
</tr>
<tr>
<td>ATEX: Class II 2G Ex ib IIC T4 Gb</td>
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</tr>
<tr>
<td>Dust Rating</td>
<td></td>
</tr>
<tr>
<td>ATEX: Class II 2G Ex ib IIC T130 °C Db</td>
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</tr>
<tr>
<td>Mining Rating</td>
<td></td>
</tr>
<tr>
<td>ATEX: Class I M2 Ex lb I Mb</td>
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</tr>
<tr>
<td>Ingress Protection (IP) Rating</td>
<td>IP67</td>
</tr>
<tr>
<td>Typical battery life with IMMPRES Li-ion (5/5/50 duty cycle) Note: No G0B, No G0P, Analog Conventional</td>
<td>16 hrs</td>
</tr>
<tr>
<td>Typical battery life with IMMPRES Li-ion (5/5/50 duty cycle) Note: No G0B, No G0P, Digital Conventional</td>
<td>19 hrs</td>
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### Environmental Specifications

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<th>DP4081 Ex Display PORTABLE</th>
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<tbody>
<tr>
<td>Operating Temperature</td>
<td>-20°C to +55°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td>Thermal Shock</td>
<td>MIL STD 810D, E, F, G</td>
</tr>
<tr>
<td>Humidity</td>
<td>MIL STD 810D, E, F, G</td>
</tr>
<tr>
<td>ESD</td>
<td>IEC 801-2KV</td>
</tr>
<tr>
<td>Water Intrusion</td>
<td>IEC 60529 IP67</td>
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<tr>
<td>Packaging Test</td>
<td>MIL STD 810D, E, F, G</td>
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<tr>
<td>Channel Spacing</td>
<td>12.5/20/25KHz</td>
</tr>
<tr>
<td>Frequency Stability (30°C, +40°C, +25°C)</td>
<td>±0.5ppm</td>
</tr>
<tr>
<td>Analogue Sensitivity (12 dB SINAD) Typical</td>
<td>0.256V</td>
</tr>
<tr>
<td>Intermodulation (TA603IC)</td>
<td>70dB</td>
</tr>
<tr>
<td>Adjacent Channel Selectivity</td>
<td></td>
</tr>
<tr>
<td>(TA603IC - 1T)</td>
<td>60dB @ 12.5kHz / 70dB @ 20/25kHz</td>
</tr>
<tr>
<td>Spurious Rejection (TA603IC)</td>
<td>45dB @ 12.5kHz / 70dB @ 20/25kHz</td>
</tr>
<tr>
<td>Rated Audio</td>
<td>0.5W</td>
</tr>
<tr>
<td>Audio Distortion @ Rated Audio</td>
<td>5%, 3% (typical)</td>
</tr>
<tr>
<td>Hum and Noise</td>
<td>-40dB @ 12.5kHz / -45dB @ 20/25kHz</td>
</tr>
<tr>
<td>Audio Response</td>
<td>TA603IC</td>
</tr>
<tr>
<td>Conducted Spurious Emission (ETSI)</td>
<td>-57dBm</td>
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For more information on how to communicate safely in unsafe places, visit [motorolasolutions.com/mototrbo](http://motorolasolutions.com/mototrbo).

Or find your closest Motorola representative or authorised Partner [motorola.com](http://motorola.com)/Business/XU-EN/Contact_Us.

Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements.

*DP4000 Ex Series is rated IP67 and is also certified to the highest ingress protection available under ATEX/IECEx test conditions - IP64.*