Muzic Aeon premium-performance wireless telemetry
High bandwidth at HPHT conditions for multiple channels

Where it is used
- Downhole reservoir testing in harsh HPHT and sour environments
- Land, jackup, and deepwater operations
- Exploration and appraisal testing

How it improves wells
- Optimizes rig time and advances testing certainty through real-time test validation and data interpretation
- Enhances safety
- Enables single-trip multizone testing
- Mitigates test validation risk for more accurate characterization
- Reduces or eliminates the need for wireline intervention
- Eliminates the transmissibility issues of pressure commands

How it works
- Bidirectional wireless communication between surface and downhole
- Real-time wireless data transmission via a repeater network
- Full acoustic control of drillstem testing (DST) tools
- Symphony* live downhole reservoir testing united by Muzic Aeon* premium-performance wireless telemetry and in Concert* well testing live performance

Muzic Aeon premium-performance wireless telemetry system provides bidirectional wireless communication in real time across challenging environments to gather downhole data and deliver tool operational commands where standard telemetry cannot function.

All-ceramic technology
Incorporating state-of-the-art all-ceramic multichip module (MCM) technology from the aerospace industry, Muzic Aeon telemetry raises the performance bar with reliable communication in HPHT and sour environments. This industry-leading hardware is complemented by kernel-enabled advanced signal processing techniques, noise cancellation, and AI networking for reliably communicating all the downhole data needed to make real-time informed decisions for meeting test objectives.

Full-resolution data to keep everyone, everywhere informed
Muzic Aeon telemetry employs a network of repeaters to gather full-resolution data from the reservoir. The wideband data can be integrated with surface measurements in the Concert well testing live performance ecosystem for secure communication via InterACT* global connectivity, collaboration, and information service to wherever technical experts are stationed for interactive, collaborative analysis.

The proprietary 100% ceramic MCM design ensures reliable operation at high temperatures.

### Muzic Aeon Telemetry Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Wireless repeater</th>
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</thead>
<tbody>
<tr>
<td>Service</td>
<td>NACE H2S</td>
</tr>
<tr>
<td>Working pressure, psi [MPa]</td>
<td>30,000 [207]</td>
</tr>
<tr>
<td>Max. OD, in [mm]</td>
<td>1.2 [30.5]</td>
</tr>
<tr>
<td>Working temperature, degF [degC]</td>
<td>392 [200]</td>
</tr>
<tr>
<td>Autonomy, days</td>
<td>30 to 365</td>
</tr>
<tr>
<td>Single-hop transmission,†</td>
<td>1,000 [300]</td>
</tr>
<tr>
<td>Standard round-trip time,†</td>
<td>90</td>
</tr>
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Because Muzic Aeon telemetry uses all-ceramic technologies, it continues to perform reliably long after the typical DST duration of approximately 15 days (360 h), even in high-temperature environments.