




## Position wireless correlation tool

Real-time depth correlation during Symphony live downhole reservoir testing for improved accuracy and operational efficiency

-  **Temperature:**  
Reliable, consistent performance to 330-degF rating
-  **Measurement:**  
Real-time depth correlation with  $\pm 1$ -ft accuracy
-  **Log:**  
Continuous gamma ray count and pressure

### Where it is used

- Downhole reservoir testing
- Land and offshore
- Exploration and appraisal wells
- Multizone well testing

### How it improves wells

The Position wireless correlation tool is incorporated in the Symphony\* live reservoir testing toolstring to provide real-time depth correlation to a pip tag or natural formation gamma ray signature.

### How it works

Continuous real-time gamma ray and pressure measurements are used to position the perforating guns at the target reservoir with an accuracy of 1 ft [0.3 m]. A photomultiplier tube (PMT) sensor provides fast response and high signal-to-noise ratio for the gamma ray count. A Signature\* quartz gauge obtains accurate, high-resolution pressure measurements in all operating environments.

### What it replaces

Eliminating a separate intervention run to obtain a wireline gamma ray and casing correlation log for depth correlation saves rig time, reduces crew size, and enhances safety.

### What else I should know

Symphony testing uses Muzic\* wireless telemetry for real-time bidirectional communication between surface and downhole. The Position tool's gamma ray and pressure data is communicated via a digitized acoustic signal transmitted along the toolstring with a network or repeaters. In turn, Muzic telemetry enables direct interaction to space out the toolstring for the perforating operation.



Real-time confirmation of toolstring position by the gamma ray count via Muzic wireless telemetry.

Specifications	
	GRPT
Measurements	Gamma ray count, pressure
Service	H <sub>2</sub> S: NACE MR0175
Spatial resolution, ft [m]	1 [0.3]
Max. pressure, psi [MPa]	18,000 [124]
Temperature rating, degF [degC]	330 [166] <sup>†</sup>
Max. OD, in [mm]	1.2 [30.5]
Length, in [cm]	60.2 [152.7]
Weight (excluding battery), lbm [kg]	11 [5]

<sup>†</sup> Specific maintenance service level needed for temperature rating about 300 degF [149 degC].



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