

Quad Orbital

Directional gamma response while rotating and sliding.



PRODUCT ILLUSTRATION

Four gamma sensors in one retrievable probe provide selectable azimuthal bins, up/down sliding measurements and rotary inclination. The module is designed to replace the gamma module in a compatible MWD string.

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azimuthal bins

175°C

temperature rating

20,000 psi

pressure rating

Mechanical and environmental

Parameter	Published value
Probe diameter	1.875 in
Probe length	69.5 in
End connections	10-pin Kintec
Operating pressure	20,000 psi
Operating temperature	175°C / 347°F
Random vibration, 50-1000 Hz	20 G, three axes
Z-axis shock	500 G / 0.5 ms
X/Y-axis shock	1,000 G / 0.5 ms
Sensitivity	0.2 CPS

The duplicated input-voltage entries in the supplied source are withheld pending confirmation.

Orientation and measurement

Parameter	Published value
Two-bin gamma	180° windows
Four-bin gamma	90° windows
Eight-bin gamma	45° windows
Rotary inclination accuracy	±0.25°
RPM accuracy	±1 rpm
Maximum RPM	100 rpm
Shock measurement range	100 G
Shock measurement accuracy	±1 G
RMS vibration accuracy	±1 G
Shock-count threshold	Field programmable
Temperature resolution	1°C

Source entries apparently copied from the Flashlight measurement list are excluded.

Application & configuration

Applications: Directional and horizontal drilling; Formation-boundary and fault interpretation; Formation context during rotation and slides.

Confirm surface decoding, sampling configuration and compatible MWD assembly. The published maximum rotation rate is 100 rpm.

Source: ORBITAL_GAMMA_BROCHURE MWDS(5).pdf. Values are transcribed from supplied documentation. Confirm the current assembly, operating envelope and telemetry compatibility with MWD Solutions before use.