

Production Gamma Ray (PGR)

The Production Gamma Ray (PGR) tool measures the naturally occurring radiation that is emitted by various formations to determine lithology. Radioactive scale can also be detected.

Description

All PGR tools are compact, rugged and combine excellent sensitivity with high resolution. Gamma rays are detected by a Sodium Iodide scintillation crystal, amplified and counted then sent to the appropriate telemetry tool. The detector is temperature compensated to minimise drift from the photomultiplier tube.

When calibrated the difference between background and calibrator levels establish a ratio between raw counts and API units, allowing a calibrated display to be presented on the log in API units.

Features

- Combinable with other Ultrawire™ production logging tools.
- Depth correlation.
- Lithology determination.
- Identification of radioactive scale.
- Tracer monitoring.
- Gravel pack when used in conjunction with a gamma source.
- Also available in Dualconn version (1¹¹/₁₆in tools only).

Specification

Model	PGR021	PGR020
Temperature rating	350°F (177°C)	
Pressure rating	15,000psi (103.4MPa)	
Tool diameter	1 ³ / ₈ in (35mm)	1 ¹¹ / ₁₆ in (43mm)
Tool length	19.7in (500mm)	23.1 (586mm)
Tool weight	5.1lbs (2.3kg)	9.4lbs (4.3kg)
Toolbus	Ultrawire™	
Current consumption	20mA	
Sensor measure point	4.6in (117mm)	5.3in (134mm)
Sensitivity (nominal)	1 count per API	
Materials	Corrosion resistant throughout	

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