



TECHNICAL DATA SHEET

PGR

Production Gamma Ray

The Production Gamma Ray (PGR) tool measures the naturally occurring radiation emitted by various formations. The major applications are depth correlation and radioactive scale identification.

The PGR tool is compact, rugged and combines excellent sensitivity with high resolution. Gamma rays are detected by a sodium iodide scintillation crystal, amplified and counted. The detector is temperature compensated to minimise drift from the photomultiplier tube.

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

Applications

- Depth correlation
- Radioactive scale determination
- Pip tag depth correlation
- Radioactive tracer monitoring

Benefits

- Identification of radioactive scale to help optimise clean-up or remediation
- Qualitative assessment of gravel pack placement when used in conjunction with a gamma source
- Deployable on Slickline, Electric line, Coil Tubing and Tractor





Specifications

Temperature rating	350°F (177°C)
Pressure rating	15,000 psi (103.4 MPa)
Tool diameter	1 ¹¹ / ₁₆ in (43mm)
Tool length	23.1 in (586 m)
Tool weight	9.4 lb (4.3 kg)
Sensitivity (nominal)	1 count per API
Maximum count rate (API)	2,000 cps
Logging speed	Recommended: 30 ft/min (10 m/min) Maximum: 60 ft/min (20 m/min)
Materials	Corrosion resistant throughout

