






# Gamma Ray Logging Sub (GRLS)

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## OVERVIEW

The Gamma Ray Logging Sub (GRLS) measures the natural gamma ray generated from the formation that surrounds the wellbore. The sensor comprises a 4" sodium iodide scintillator, a photomultiplier, and a 1.6kV high voltage power supply. The models of GRLS are compactly designed and offers good sensitivity and high resolution for use in cased-hole production logging operations. The Tool, combined with other tools, may be used for flow tracer work and, with the addition of a gamma source, for gravel pack investigations.

## APPLICATION

-  Lithological identification
-  Depth correction
-  Identification of radioactive scale
-  Tracer monitoring
-  Gravel pack monitoring (with an addition gamma source)



## SPECIFICATIONS

Parameters	Description	
Model	GRLS-BA	GRLS-CA
OD	35mm (1 3/8")	43mm (1 11/16")
Max Working Temperature	175°C (350°F)	175°C (350°F)
Max Working Pressure	103MPa (15,000psi)	103MPa (15,000psi)
Shipping Length	787mm (30.98")	774mm (30.47")
Rig-up Length	692mm (27.24")	679mm (26.73")
Weight	3.6kg (7.9lbs)	4.7kg (10.4lbs)
Operating Voltage	14VDC-18VDC (Nor. 17VDC)	14VDC-18VDC (Nor. 17VDC)
Operating Current	35mA±3mA	35mA±3mA
Bus	WRTbus	WRTbus
Measuring Range	0-10000 CPS	0-10000 CPS
Sensor	Scintillation Crystal (NaI)	Scintillation Crystal (NaI)
Lower Limits	20keV	20keV
Statistic Variation	≤10%	≤10%